eog resources

EOG Resources, Inc.
1540 Belco Drive
Big Piney, WY 83113-0250
P.O. Box 250
Big Piney, WY 83113-0250
(307) 276-3331

October 27, 2005

Bureau of Land Management
Vernal Field Office
170 South 500 East
Vernal, Utah 84078

RE: APD - Submittals

To Whom It May Concern:

Attached please find Applications for Permit to Drill for the following wells:

Nutters Canyon	1-2
Road Hollow	1-35
Quitchampau	1-15 ✓
Gilsonite	1-20

If you require additional information, please contact me at (307) 276-4842.

Sincerely,

Kaylene Gardner
Regulatory Assistant

krg

cc: Denver
file

RECEIVED
OCT 31 2005
DIV. OF OIL, GAS & MINING

Form 3160-3
(February 2005)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: **UTU-78212**

6. If Indian, Allotee or Tribe Name: **NA**

7. If Unit or CA Agreement, Name and No.: **NA**

8. Lease Name and Well No.: **QUITCHAMPAU 1-15**

9. API Well No.: 43-013-32940

1a. Type of work: [✓] DRILL [ ] REENTER

1b. Type of Well: [ ] Oil Well [✓] Gas Well [ ] Other [ ] Single Zone [✓] Multiple Zone

2. Name of Operator: **EOG RESOURCES, INC.**

3a. Address: **600 17th STREET, SUITE 1100N, DENVER, CO 80202**

3b. Phone No. *(include area code)*: **307-276-4842**

10. Field and Pool, or Exploratory: **EXPLORATORY** / Wildcat

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface: **709' FSL, 675' FWL (SW/SW)** 538246X 39.954625
At proposed prod. zone: **SAME AS ABOVE** 4422607Y -110.552255

11. Sec., T. R. M. or Blk. and Survey or Area: **SEC. 15, T6S, R6W, U.S.B.&M.**

14. Distance in miles and direction from nearest town or post office*: **38.1 MILES SOUTHWEST OF MYTON, UTAH**

12. County or Parish: **DUCHESNE**

13. State: **UT**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
LEASE/DRLG UNIT 4,571 FT/645 FT	**7624**	**40 ACRES**
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
SEE TOPO MAP "C"	**14,400 FT**	**NM-2308**
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
8772.7 FT GRADED GROUND	**06/01/2006**	**45 DAYS**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature: [signature] — Name *(Printed/Typed)*: **KAYLENE GARDNER** — Date: **10/27/2005**

Title: **REGULATORY ASSISTANT**

Approved by *(Signature)*: [signature] — Name *(Printed/Typed)*: **BRADLEY G. HILL** — Date: 11-01-05

Title: **ENVIRONMENTAL SCIENTIST III** — Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Federal Approval of this Action is Necessary

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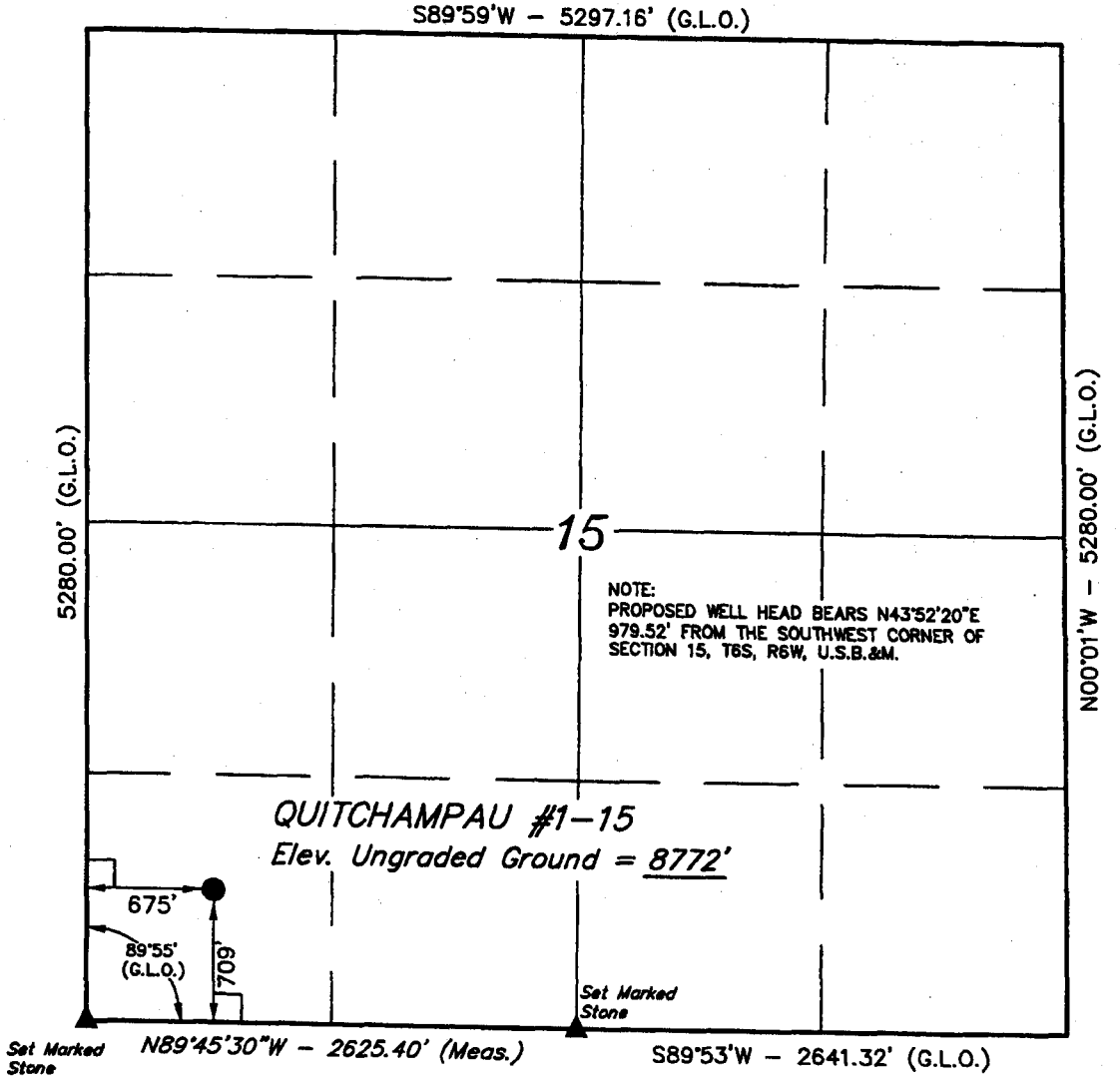
OCT 31 2005
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

T6S, R6W, U.S.B.&M.



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(AUTONOMOUS NAD 83)
LATITUDE = 39°57'16.33" (39.954536)
LONGITUDE = 110°33'10.20" (110.552833)
(AUTONOMOUS NAD 27)
LATITUDE = 39°57'16.47" (39.954575)
LONGITUDE = 110°33'07.64" (109.552122)

LEGEND:

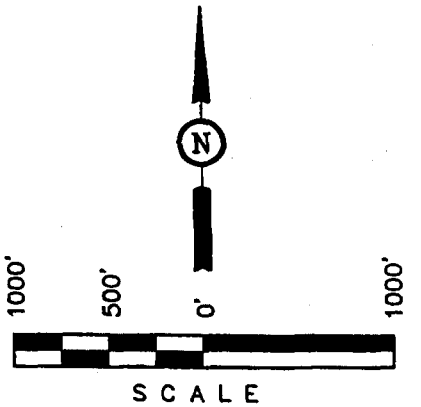
└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.

EOG RESOURCES, INC.

Well location, QUITCHAMPAU #1–15, located as shown in the SW 1/4 SW 1/4 of Section 15, T6S, R6W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (SOWERS) LOCATED IN THE SE 1/4 OF SECTION 36, T6S, R6W, U.S.B.&M. TAKEN FROM THE LANCE CANYON QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8223 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 05-24-05	DATE DRAWN: 05-31-05
PARTY: J.F. P.J. C.G.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: EOG RESOURCES, INC.	

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	DEPTH (KB)	OBJECTIVE
Green River	1,381'	
Wasatch	5,996'	
Dark Canyon	9,911'	
KMV Price River	10,353'	
KMV Price River Middle	11,247'	
Bluecastle	11,884'	
KMV Price River Lower	12,213'	
KMV Castlegate	12,556'	GAS
Pressure Top	12,557'	
KMV Blackhawk	12,859'	GAS
Sunnyside	13,273'	GAS
Kenilworth	13,642'	GAS
Aberdeen	13,810'	GAS
Spring Canyon	14,313'	GAS

EST. TD: 14,400' ± below Spring Canyon top **Anticipated BHP 8200 PSI**

Fresh water zones may exist anywhere in the upper 4000' of the well. All such zones will be isolated by cement to surface.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 11". 5000 PSI BOPE
BOP schematic diagrams attached.

Intermediate Hole:
13 5/8", 5000 PSI.
Annular 13 5/8" rotating head to be used as a diverter.

4. CASING PROGRAM:

								RATINGS		
HOLE	SIZE	INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	CONN	COLL. PSI	BURST PSI	TENS PSI
Surface:	17 1/2"	0' - 300'± KB	300' ±	13 3/8"	48.0 #	H-40	ST&C	740 PSI	1730 PSI	322,000#
Intermediate	12 1/4"	300' - 5100'± KB	5100' ±	9 5/8"	40.0#	N-80	LT&C	3090 PSI	5750 PSI	737,000#
Production:	7 7/8"	5100' – TD ± KB	14,400' ±	4 1/2"	11.6 #	HC P-110	LT&C	8650 PSI	10,690 PSI	279,000#

All casing will be new or inspected.

Note: 12 ¼" surface hole will be drilled to a total depth of ± 200' below the base of the Green River lost circulation zone and cased with 9 5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 5100' shown above depending on the actual depth of the loss zone.

5. Float Equipment:

Surface Hole Procedure (0-300' Below GL):
Guide Shoe
Wooden wiper plug
Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

Intermediate Hole Procedure (300'-5100'):
Guide Shoe
Insert Float Collar (PDC drillable)
Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface.

Production Hole Procedure (5100'-TD):
FS, 1 joint of casing, FC, and balance of casing to surface. Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above top of shallowest potentially-productive zone. Thread lock FS, top and bottom of FC, and top of 2nd joint.

6. MUD PROGRAM

Surface Hole Procedure (0-300' below GL):
Air /air mist or aerated water

Intermediate Hole Procedure (300'-5100'):
Water (circulate through reserve pit) with Gel/LCM sweeps.

Production Hole Procedure (5100'-TD):
5100'- 10'000': Reserve pit water. Circulate through reserve pit with Gel/LCM and PHPA sweeps as needed.

10,000'-TD: Weighted LSND, 9-11 PPG, 9 – 10 pH, less than 20 cc's water loss. Run LCM sweeps periodically to seal off loss zones or more often as hole dictates. Expect increasing gas shows requiring heavier mud weights from the top of the Price River onward. Treat CO2 contamination with DESCO CF if mud properties dictate.

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

While drilling surface hole, EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be 75' in length.

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

8. EVALUATION PROGRAM:

Logs: Mud log from base of surface casing to TD. Schlumberger Platform Express with Di-pole Sonic from TD to base of surface casing in 1 run. Rotary sidewall cores as needed and based upon results from first log run.

9. CEMENT PROGRAM:

Surface Hole Procedure (0-300' Below GL)

Lead: 360 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl2) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

Top Out: Top out with Class 'G' cement with 2% S1 (CaCl2) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Intermediate Hole Procedure (300'-5,100')

Lead: 460 sx. (50% excess volume) Class 'G' lead cement (coverage from 4100'-300') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft3/sk., 24.5 gps water.

Tail: 290 sx. (50% excess volume) Class 'G' cement (coverage from 5100'-4100') with 10% D53 (Gypsum), 2% S1 (CaCl2) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft3/sk., 7.9 gps water.

If openhole logs are run in intermediate hole, cement volumes will be based on openhole log caliper volume plus 10% excess.

Production Hole Procedure (5100' to TD)

Lead: 690 sx Hi-Lift G (coverage from 400' above top productive interval to 4900' (± 200' into intermediate casing)) w/ 12% D20 (Bentonite), 1% D79 (Extender), 0.2% D46 (Antifoamer), 0.2% D167 (Fluid Loss Additive), 0.2 % D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 11.5 ppg, 3.05 cu. ft./sk., 18.65 gps water.

Tail: 460 sx 50:50 Poz:G (coverage from TD to 400' above top productive interval) w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

Note: Production string cement volumes shown are based on gauge hole +30% excess and assuming a top productive zone at 12,400'. Actual volumes will be based upon open hole caliper log volume plus 5% excess and top of tail cement zlurry to 400' above the highest indicated productive interval. Tail cement composition will be adjusted as needed for bottom hole temperature indicated on open hole logging tools.

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (300'-5100')

Potential Problems: Lost circulation through this section and minor amounts of gas may be present. Hydrocarbon shows and/or water zones will be monitored for and reported.

PRODUCTION HOLE (5100'-TD)

Potential Problems: Research indicates that mud losses are possible throughout all of the 7-7/8" hole. Sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

A. Choke Manifold
B. Upper and Lower Kelly Cock
C. Stabbing Valve
D. Electronic/mechanical Mud monitoring equipment (PVT)

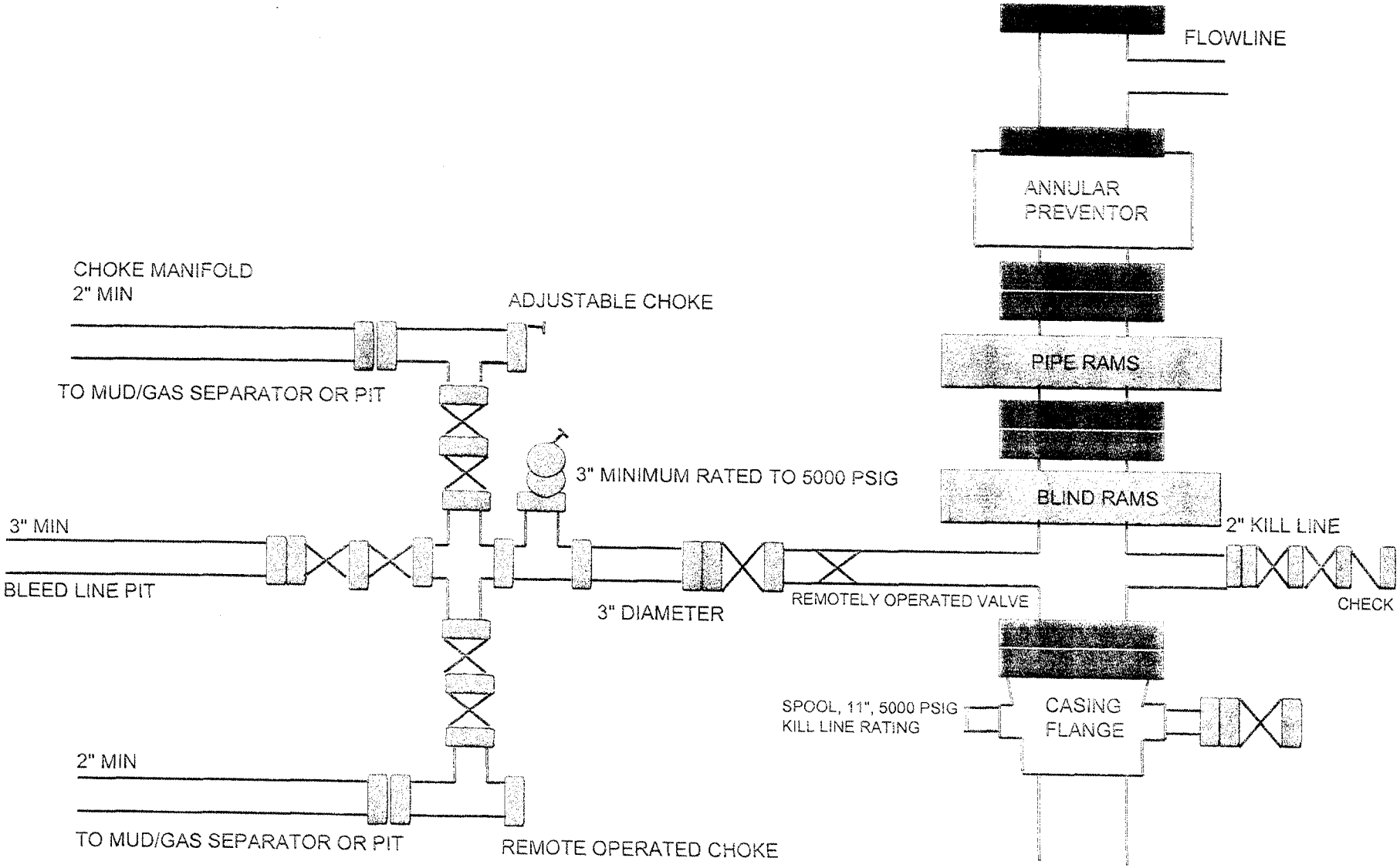
12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

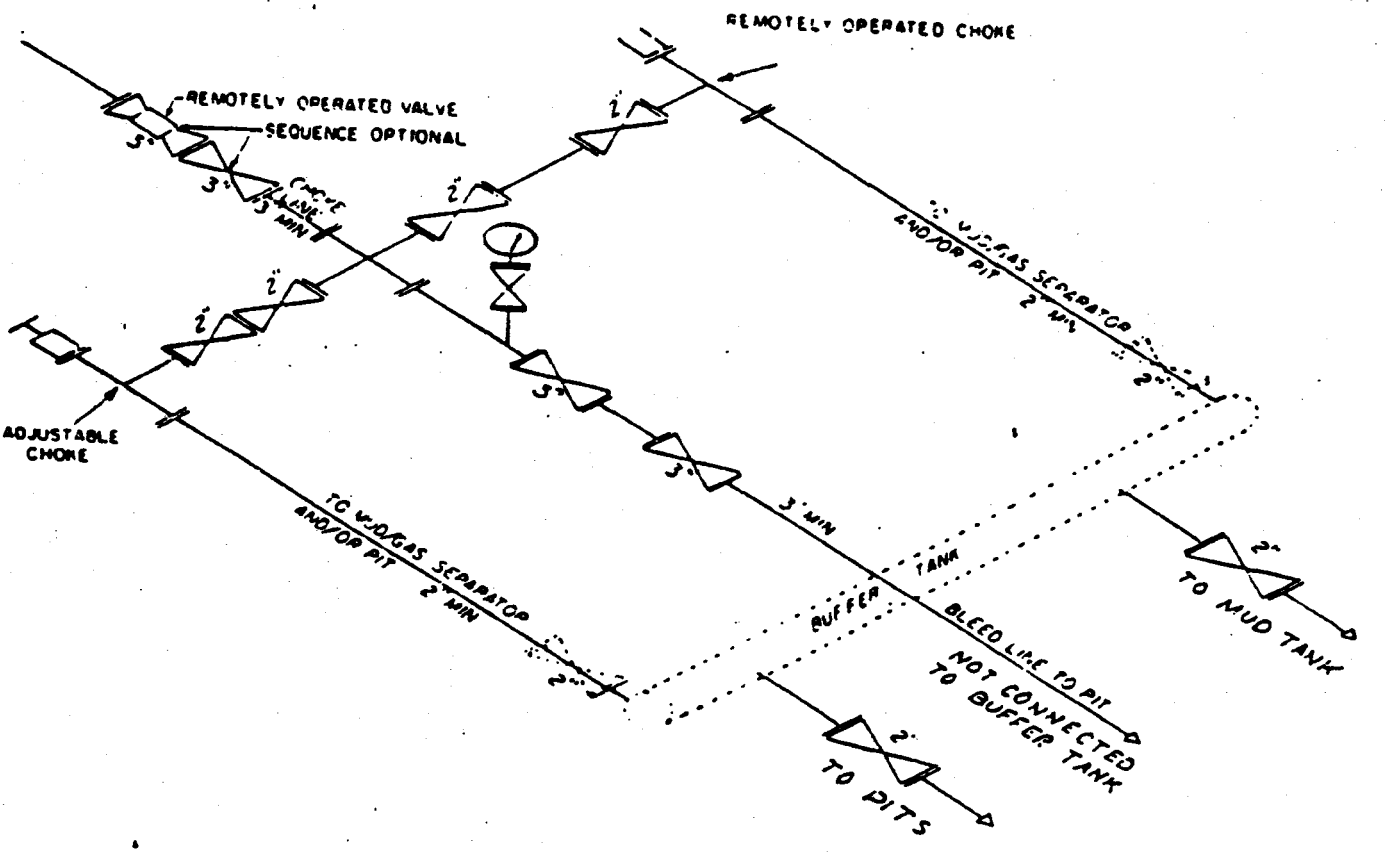
(Attachment: BOP Schematic Diagram)

5000 PSIG BOPE DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 5000 PSIG RATED.
CASING FLANGE IS 11" 5000 PSIG RATED.



CHOKE MANIFOLD



EOG RESOURCES, INC.
QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 16.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 5.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #10-31 TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #2-31 TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO AN EXISTING TWO-TRACK ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 5.6 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON UTAH TO PROPOSED LOCATION IS APPROXIMATELY 38.05 MILES.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator:	EOG Resources, Inc.
Well Name & Number:	Quitchampau 1-15
Lease Number:	UTU-78212
Location:	709' FSL & 675' FWL, SW/SW, Sec. 15, T6S, R6W, U.S.B.&M., Duchesne County, Utah
Surface Ownership:	Federal

NOTIFICATION REQUIREMENTS

Location Construction:	Forty-eight (48) hours prior to construction of location and access roads.
Location Completion:	Prior to moving on the drilling rig.
Spud Notice:	At least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing:	Twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and related Equipment Tests:	Twenty-four (24) hours prior to running casing and tests.
First Production Notice:	Within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

The well pad is approximately 325 feet long with a 246-foot width, containing 1.84 acres more or less. The existing well access road is a 2-track road approximately 5.6 miles long. The access road will require upgrading to ensure safe use. No pipelines or surface facilities are proposed. See attached plats and TOPO maps.

1. **EXISTING ROADS**

A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.

B. The proposed well site is located approximately 38.05 miles southwest of Myton, Utah - See attached TOPO Map "A."

C. Refer to attached Topographic Map "A" showing labeled access route to location.

D. The 5.6-mile 2-track road will serve as access to the well. It will be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading will include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. The upgraded access road will have an 18-foot dirt surface. Prior to upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. Traveling off the 30 foot Right-of-Way will not be allowed.

E. Existing roads will be maintained and repaired as necessary.

F. Men and equipment will be commuting from the Vernal/Duchesne area. This well is planned to be drilled in the summer of 2006. Drilling and completion would occur over a period of approximately seven weeks.

2. **PLANNED ACCESS ROAD**

A. Access to the well will be provided by the existing 2-track road previously described. See attached TOPO Map "B1."

B. A cultural resource survey will be conducted on the proposed access route after the route location with upgrades has been finalized.

C. Maximum grade on access road will be 8%.

D. No turnouts will be required.

E. No culverts, bridges, or major cuts and fills will be required.

F. No gates, cattleguards, or fences will be required. As operator, EOG Resources, Inc. will be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

G. New or reconstructed roads were centerlined-flagged at time of location staking.

H. Road drainage crossings will be of the typical dry creek drainage crossing type. Crossings will be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor will the drainages be blocked by the roadbed.

I. Erosion of drainage ditches (if constructed) by run off water will be prevented by diverting water off at frequent intervals by means of cutouts.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

Abandoned wells – 1. See attached TOPO Map "C."

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD
   1. The proposed location will be constructed on the existing location for the plugged and abandoned TCU #1. This location has not been reclaimed.
   2. Permanent production facilities will not be set on location. This well is an exploratory well.
   3. Gas gathering lines will not be installed.
   4. Approximately 1.84 acres will be required for the construction of the well pad, approximately 50% of which will use the unreclaimed TCU #1 well pad. If the well is determined to be dry, the entire location will be reclaimed according to USFS requirements.

B. OFF WELL PAD: No facilities are planned off the well pad.

5. LOCATION & TYPE OF WATER SUPPLY

A. Water supply will be from the nearest approved source, possibly from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, Utah (State Water Right #49-1501). Water will be hauled by a licensed trucking company.

B. If drilling the conductor or surface hole indicates the existence of water bearing zones, EOG Resources will consider drilling a water well on the location to provide a more viable water source. Drilling a water well would reduce truck travel to the well site. No additional disturbance will result from drilling a water well.

6. SOURCE OF CONSTRUCTION MATERIAL

A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.

B. All construction material will come from federal land.

C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Roosevelt sewage disposal plant or other approved disposal site.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the nearest approved landfill or the Duchesne County Landfill.
4. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

B. RESERVE PIT

1. Water from drilling fluids and recovered during testing operations will be disposed of by removal and transport to an authorized disposal site.
2. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.
3. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90-day period, the produced water will be disposed of at an authorized disposal site. The tank, if used, would be removed from the location as soon as practicable after the water is transported from the location.
4. The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.
5. The reserve pit will be lined with felt and a 12-millimeter plastic liner.

8. ANCILLARY FACILITIES

No airstrips, camps, or other ancillary facilities are planned for this well.

9. WELLSITE LAYOUT

A. Refer to attached well site plat for related topography cuts and fills and cross sections.

B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on onsite.

C. Refer to attached well site plat for rig orientation, parking areas, and access road.

D. The approved seed mixture for this location will be as required by the USFS.

E. The reserve pit will be located on the northeast corner of the location. The flare pit will be located downwind of the prevailing wind direction on the east side of the location, a minimum of 100 feet from the well head. The position of the flare pit will be dictated by rig configuration such that the flare pit is a safe distance from the reserve pit without requiring use of elbows or excessive bends in flare lines.

F. The stockpiled location topsoil will be stored east of Corner #6.

G. Access to the well pad will be from the south.

H. FENCING REQUIREMENTS: All pits will be fenced according to the following minimum standards:
   1. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
   2. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
   3. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
   4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
   5. All wire shall be stretched by using a stretching device before it is attached to the corner posts.
   6. The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.
   7. Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to USFS specifications. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the USFS, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. COMPLETED LOCATION

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, and trash not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit will be removed in accordance with CFR 3162.7-1.
3. If a plastic nylon reinforced liner is used, it will be torn and perforated before backfilling of the reserve pit.
4. Interim reclamation will be performed on all areas of the access road and well pad not needed after drilling and completion operations (if performed) are finished.
5. The reserve pit will be recontoured to the approximate natural contours. The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.
6. Rat and mouse holes will be filled and compacted from bottom to top immediately after release of the drilling rig from the location.
7. Topsoil from the berms and/or storage piles will be spread along the road's cut and fill slopes. Drainage ditches or culverts will not be blocked with topsoil and associated organic matter. The topsoil areas will be seeded as stated below. The unused area of the pad will be recontoured and topsoil spread six inches deep. The area on the contour will be ripped one foot deep using ripper teeth set on one-foot centers.
8. All disturbed, unused areas will be seeded using a drill equipped with a depth regulator. All seed will be drilled on the contour. The seed will be planted between one-quarter and one-half inch deep. Where drilling is not possible (i.e., too steep or rocky), the seed will be broadcast and the area raked or chained to cover the seed. If the seed mixture is broadcast, the rate will be doubled. The certified or registered seed mixture and application rates will be obtained from the Authorized Officer.
9. Seeding will be done either in late autumn (September 1 to November 15, before freeze up) after completion or as early as possible the following spring to take advantage of available ground moisture. The seeding shall be repeated until a satisfactory stand, as determined by the Authorized Officer, is obtained. The first evaluation of growth will be made following completion of the first growing season after seeding.
10. If the well is determined to be one capable of successful production, EOG Resources understands that the installation of production facilities would occur only after appropriate review and approval by the USFS and BLM.

B. DRY HOLE/ABANDONED LOCATION: Prior to final abandonment reclamation work, a sundry notice describing the proposed reclamation plan will be submitted to the Authorized Officer for approval.

11. SURFACE OWNERSHIP

Access road: Federal –Ashley National Forest
Location: Federal - Ashley National Forest

12. OTHER INFORMATION

A. Cultural resources surveys were performed by Montgomery Archaeological Consultants and are attached to this APD. Montgomery Archeological Consultants will submit paleontological surveys. A SHPO concurrence letter, dated 9/19/05, was received at the Ashley NF office on 9/28/05.

B. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used.
- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

C. As operator, EOG Resources, Inc. will control noxious weeds along ROWs for roads, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the USFS, or the appropriate County Extension Office. On USFS-administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted using a completion/workover rig.

E. The Quitchampau #1-15 is an exploratory well. As such, temporary production facilities may be installed on the well pad. No permanent production facilities will be constructed until such time that they are needed to produce the well and additional NEPA documentation of such actions is performed and approval granted.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING AGENT
Kaylene Gardner
EOG Resources, Inc.
600 17th Street, Suite 1100N
Denver, CO 80202
Telephone: (307) 276-4842

DRILLING OPERATIONS
Donald Presenkowski
EOG Resources, Inc.
P.O. Box 250
Big Piney, WY 83113
Telephone: (307) 276-4865

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. EOG Resources, Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and any necessary ROW grant will be on location during construction of the location and drilling activities.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

October 27, 2005
Date

Kaylene R. Gardner
Regulatory Assistant

CULTURAL RESOURCE INVENTORY FOR EOG'S FOUR PROPOSED WELLS (NUTTERS CANYON #1-02, ROAD HOLLOW #1-35, QUITCHAMPAU #1-15, AND GILSONITE #1-20) IN ASHLEY NATIONAL FOREST DUCHESNE COUNTY, UTAH

Final

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AUG 10 2005
EOG - BIG PINEY

CULTURAL RESOURCE INVENTORY FOR EOG'S FOUR PROPOSED WELLS (NUTTERS CANYON #1-02, ROAD HOLLOW #1-35, QUITCHAMPAU #1-15, AND GILSONITE #1-20) IN ASHLEY NATIONAL FOREST DUCHESNE COUNTY, UTAH

BY:

Kate Freudenberg
and
Keith R. Montgomery

Prepared For:

Ashley National Forest
355 North Vernal Avenue
Vernal, Utah 84078

Prepared Under Contract With:

EOG Resources, Inc.
c/o Trotter Land Service
Box 1910
Vernal, UT 84078

Prepared By:

Montgomery Archaeological Consultants
P.O. Box 147
Moab, Utah 84532

MOAC Report No. 05-209

July 26, 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-0657f

United States Forest Service (USFS)
Permit No. AS-05-01033

ABSTRACT

In July of 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) for EOG's four proposed well locations (Nutters Canyon 1-02, Road Hollow 1-35, Quitchampau #1-15, and Gilsonite #1-20) and access corridors. The project area is located in the Uintah Special Meridian of Township 7 South, Range 5 West, Sections 2, 3, 4; Township 6 South, Range 5 West, Section 34; Township 6 South, Range 3 West, Section 20; and Township 6 South, Range 6 West, Sections 15, 26, 35. The project area occurs on land administered by the Ashley National Forest of Vernal, Utah.

The cultural resource inventory resulted in the documentation of three new archaeological sites (42Dc2018, 42Dc2019, and 42Dc2020), four culturally modified trees (CMT-1,2,3,4), and a revisit of site 42DC1648. Site 42Dc1648 was recently recorded in August 2004 by SWCA, Inc. Environmental Consultants and did not need any updates on site information. The three new sites and the revisited site consist of prehistoric lithic scatters and the culturally modified trees contain historic inscriptions on aspen trees.

Four sites (42Dc2018, 42Dc2019, 42Dc2020, and 42Dc1648) were evaluated as eligible to the NRHP under Criterion D for additional research potential. These sites are all prehistoric lithic scatters which demonstrate spatial patterning of lithic debitage, some of which contain diagnostic artifacts including projectile points. These sites are also situated in aeolian soil deposits with up to 20 cm of depth potential for cultural materials.

The four Culturally Modified Trees (CMT) are not recommended eligible to the NRHP because they lack associated cultural material and do not yield pertinent information to the history of the region.

The cultural resource inventory for EOG's four proposed wells resulted in the location of four archaeological sites (42Dc1648, 42Dc2018, 42Dc2019 and 42Dc2020) which are considered eligible to the NRHP. It is recommended that these eligible sites be avoided by the undertaking. The following recommendations are proposed: (1) the access into proposed Nutters Canyon #1-02 well locations needs to be re-routed to avoid site 42Dc2019; (2) reroutes around sites 42Dc1648, 42Dc2018, and 42Dc2020 will only be required if road "construction" (beyond normal maintenance) is proposed on the surface of these eligible sites; 3) a qualified archaeologist should monitor any "construction" activities along the access corridor to Nutters Canyon #1-02 in the area of sites 42Dc1648, 42Dc2018, and 42Dc2020. Based on adherence to the recommendations, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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INTRODUCTION

In July of 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) for EOG's four proposed well locations (Nutters Canyon 1-02, Road Hollow 1-35, Quitchampau #1-15, and Gilsonite #1-20) with access/pipeline corridors. The project area is located in the Uintah Special Meridian of Township 7 South, Range 5 West, Sections 2, 3,4; Township 6 South, Range 5 West, Section 34; Township 6 South, Range 3 West, Section 20; and Township 6 South, Range 6 West, Sections 26, 35. The project area is located between Cottonwood Ridge and Right Fork of Antelope Canyon near Anthro Mtn. in Duchesne County. The survey was implemented at the request of Mr. Ed Trotter of Trotter Land Service, Vernal, Utah on behalf of EOG Resources. A total of 88.4 acres was inventoried for cultural resources on land administered by the Ashley National Forest of Vernal, Utah.

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area. This project was carried out in compliance with Federal and State legislation including the Antiquities Act of 1906, the National Historic Preservation Act (NHPA) of 1966, National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was conducted by Keith R. Montgomery (Principal Investigator) and assisted by Mark Bond (Project Archaeologist), Mark Lane, and Kate Freudenberg June 15-17, 28-30 and July 1, 2005 under the auspices of U.S.D.I. (FLPMA) Permit No. 05-UT-60122, State of Utah Antiquities Project (Survey) No. U-05-MQ-0657f, and United States Forest Service (USFS) Permit No. AS-05-01033 issued to MOAC, Inc., Moab, Utah.

A file search for previous projects and documented cultural resources was conducted by Clay Johnson and Keith Montgomery on July 14, 2005 at the Ashley National Forest Field Office, Vernal, Utah. These consultations indicated that several projects occur near and within the current project area. In 1975 an inventory was conducted by the Ashley National Forest near Sowers and Lance Canyons resulting in no cultural resources (Taylor, 1975). In 1998, the Ashley National Forest conducted block surveys in T 6S, R 3W, Secs. 5,6,7,8,9,16,17,19 and 20 and in T 6S, R 4W, Secs. 12,13,14,23,24,25 and 26 (Loosle, 1998). A total of 40 archaeological sites were located consisting of rock shelters, lithic scatters, historic corrals, and a few rock art panels. Site 42Dc1239, AS-1084, is an eligible prehistoric rockshelter and rock art panel. Later in August, 2004 a survey for a seismic project was completed by SWCA, Inc. for Samson Resources (Lindsay 2004). A total of 17 archaeological sites, 14 isolated finds, and 8 isolated linear features were documented. Site 42Dc1648, a dispersed lithic scatter with two Elko Side-notched projectile points occurs within the current inventory area and was re-visited by MOAC. In summary, a number of historic and prehistoric cultural resources have been identified in the general project area with one documented site (42Dc1648) situated within the current project area.

DESCRIPTION OF PROJECT AREA

The project area is located between Cottonwood Ridge and Right Fork of Antelope Canyon near Anthro Mountain in Duchesne County (Figure 1). The legal description of the project area is Uintah Special Meridian of Township 7 South, Range 5 West Sections 2, 3, and 4; Township 6 South, Range 5 West, Section 34; Township 6 South, Range 3 West, Section 20; and Township 6 South, Range 6 West, Sections 15, 26, and 35. A total of 88.4 acres was inventoried for cultural resources on lands administered by the Ashley National Forest of Vernal, Utah.

Table 1. Legal Description of EOG's Four Proposed Well Locations and Access Corridors.

Well Location	Legal Location	Access/Pipeline	Cultural Resources
Nutters Canyon #1-02	NW/NW Sec. 2 T7S, R5W	Access: 15,300 ft.	42Dc1648 42Dc2018 42Dc2019 42Dc2020 CMT-1,2,3,4
Road Hollow 1-35	SE/NW Sec. 35 T6S, R12E	Access: 6,800 ft.	None
Quitchampau #1-15	SW/SW Sec. 15 T6S, R6W	None	None
Gilsonite #1-20	NW/NW, NE/NW, SW/NW, SE/NW Sec. 20 T6S, R3W	Access: 360 ft.	None

Environmental Setting

The project area lies on the Tavaputs Plateau within the Bookcliffs-Roan Plateau physiographic unit, characterized by a system of linear cliffs (Stokes 1986:231). The area is characterized by steep-sided narrow ridges and benches dissected by intermittent drainages. Outcrops of the Uinta formation are characterized by a dense dendritic drainage pattern and topographic relief. This Eocene-age formation occurs as fluvial deposited interbedded sandstone and mudstone and is well-known for its fossil vertebrate turtles, crocodilians, fish, and mammals. Specifically, the inventory area is situated along Tabby and Cottonwood Canyons and Cottonwood Ridge. The nearest permanent water source is the drainage in Tabby Canyon, although the surrounding canyons have numerous ephemeral drainages, and one spring is noted to the south on the topographic map. Elevation of the project area ranges from 7200 to 8800 feet a.s.l. The vegetation is dominated by a pinon-juniper woodland vegetation community along with few Douglas fir at higher elevations, prickly pear cactus and various grasses. Modern disturbances to the area include oil and gas development and grazing.

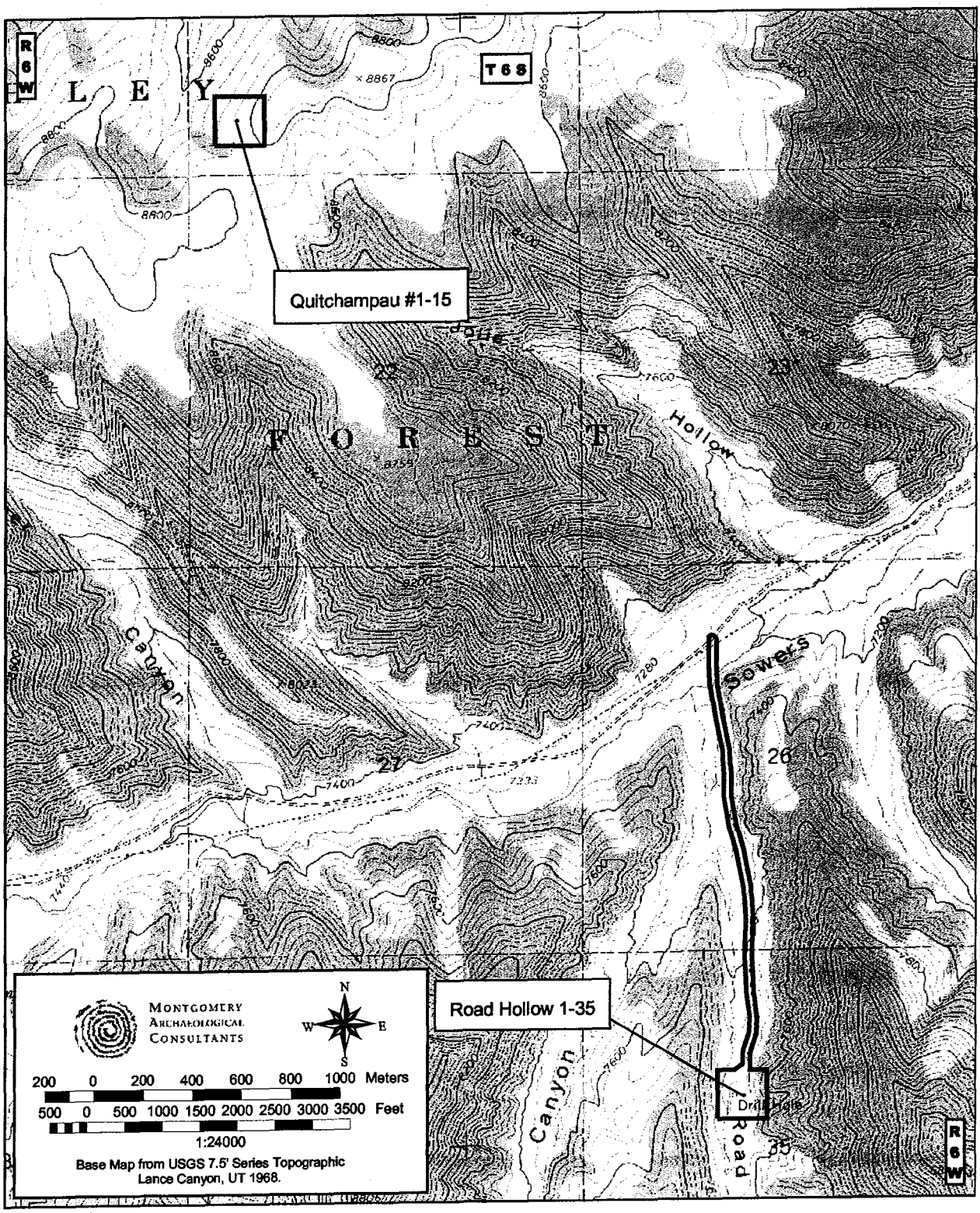

Figure 1. EOG's proposed well locations Road Hollow #1-35 and Quitchampau #1-15.

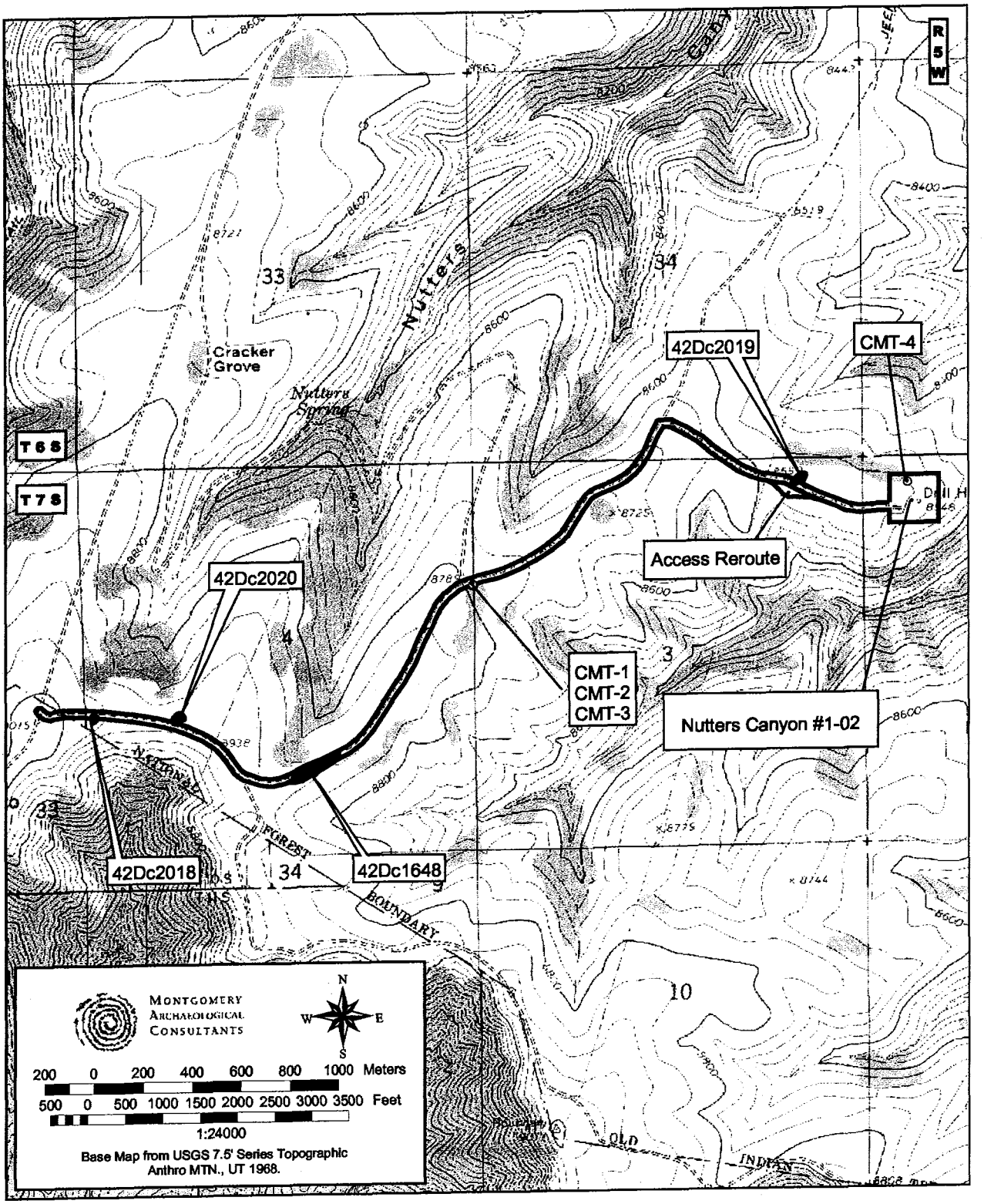

Figure 2. EOG's proposed Nutters Canyon #1-02 well location with archaeological sites and Culturally Modified Trees locations.

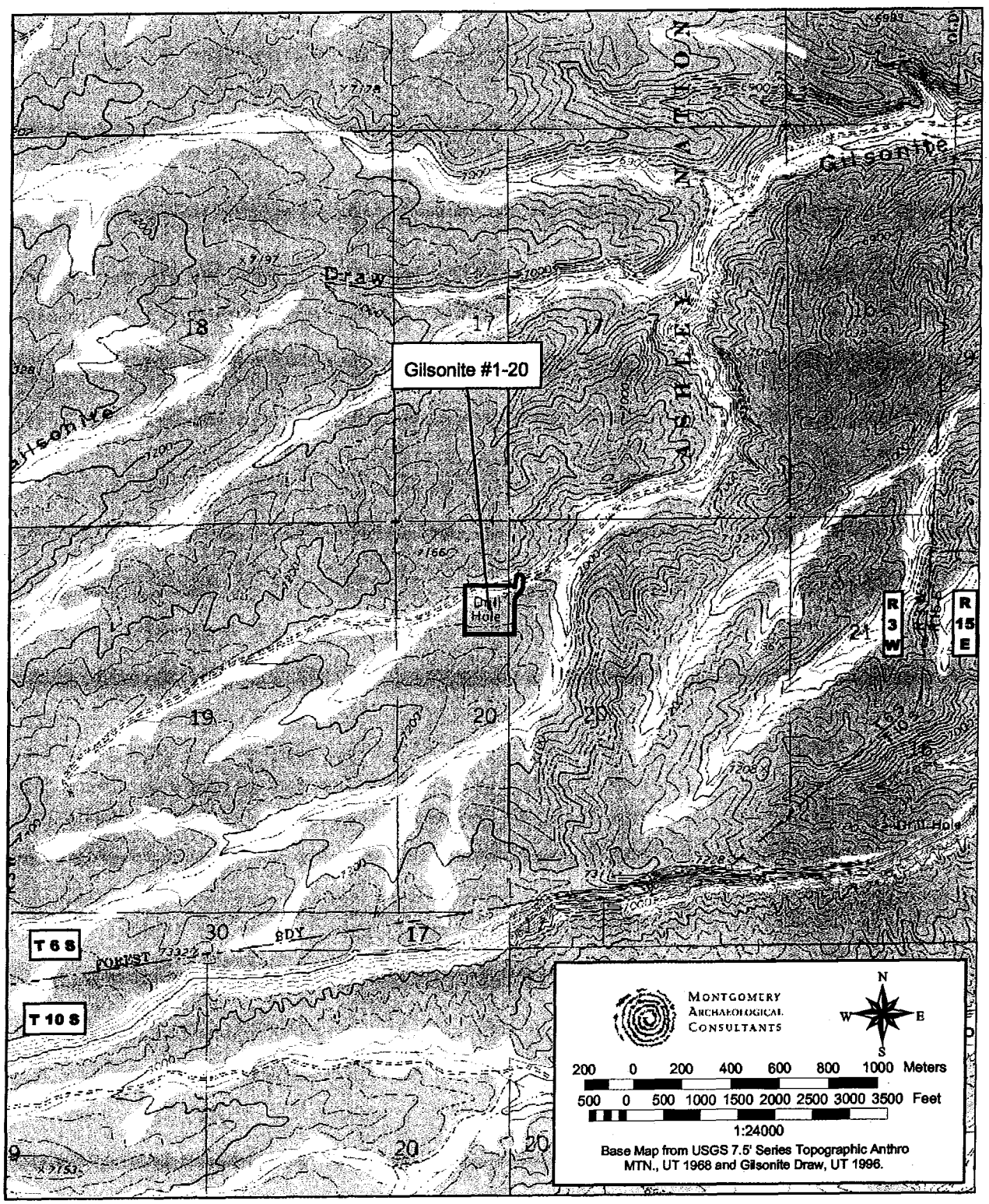

Figure 3. EOG's proposed Gilsonite #1-20 well location.

Cultural Overview

The cultural-chronological sequence represented in the area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.), which is characterized by the adaptation to terminal Pleistocene environments and by the exploitation of megafauna. The Paleoindian stage is further divided into complexes, including Clovis, Goshen, Folsom and Plano. Johnson and Loosle (2002) report that in the Uinta Mountains, the Plano complex is subdivided into Plano and the Foothill-Mountain tradition. Spangler (1995:332) states that there are no sealed cultural deposits in association with extinct fauna or with chronologically distinct Paleoindian artifacts in Utah. Few Paleoindian sites have been adequately documented in the region, and most evidence of Paleoindian exploitation of the area is restricted to isolated projectile points recovered as surface artifacts or in nonstratigraphic contexts. In the Uinta Mountains, Paleoindian point fragments have been reported as surface finds, mostly along the Green River. A variety of Plano Complex projectile points have been documented in the Uinta Basin, including Goshen, Alberta, and Midland styles (Hauck 1998). At Dutch John, northwest of the project area in the eastern Uintas, a possible Medicine Lodge Creek point and Midland point were recovered from the surface of a site chronometrically dated to the Archaic era (Johnson and Loosle 2002: 13). Copeland and Fike (1998:21) argue that many areas in Utah are conducive to the herding behavior of megafauna, and that there is a high probability that many of the sites in Utah of unknown age are Paleoindian.

The Archaic stage (ca. 8,000 B.P. - 1,500 B.P.) is characterized by a dependence on a foraging subsistence strategy, or the seasonal exploitation of a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types, perhaps reflecting the development of the atlatl in response to a need to pursue smaller and faster game (Holmer 1986). Several chronological subdivisions have been proposed for the Archaic stage in northeastern Utah. Spangler (1995) postulates Early, Middle and Late Archaic subdivisions ranging in time from 8000 BP to1400 BP. In northwestern Colorado, Reed and Metcalf (1999) assign an Archaic occupation range of 8450 to 2350 BP. At Dutch John in the eastern Uinta Mountains, Archaic occupation compares more favorably with southwest Wyoming and northwest Colorado chronologies than with the Great Basin chronology. Here the Archaic era is subdivided into Early Archaic (8000-5000 BP) and the Late Archaic period (5000-2000 BP), on the basis of documented feature types and subsistence strategy changes. For example, Early Archaic components (dating 8005 and 6605 BP) contained brush structures with internal hearths and pits, groundstone, and large side-notched points. Later Archaic components (4610 and 3290 BP) consisted of slab-lined basins in open settings, representing a mobile subsistence strategy focused on seasonal processing of roots, tubers, and cactus pads; and Elko series projectile points. Another later Archaic component consisted of two rockshelter habitations (dating 2784 to 1880 BP) containing hearth and roasting pits (Johnson and Loosle 2002:14).

Early Archaic occupation in the central Rocky Mountains, including the Uintas, appears to have been similar to that of the Great Basin and northwestern Plains, involving the movement of camps into different ecozones to exploit seasonal resources. The reliability of these resources in certain areas may have prompted semi-permanent occupations, as evidenced by the accumulation of middens, evidence of food procurement and domestic activities, and semisedentary residential facilities (Spangler 1995:841). The archaeological record at Dutch John begins at 7120 BP with an activity area containing an open air hearth. Opal phase (6310-5830 BP) sites consist of temporary camps with brush structures, some constructed over shallow depressions. Many of the brush structures contained internal hearths, and were associated with nearby activity areas. Basin and slab metates and single hand manos are common at Dutch John sites (Johnson and Loosle 2000:254). In addition to the processing of plant materials, it appears that Early Archaic occupants of the area hunted medium to large game. They exploited local lithic materials. Large side-notched

points are common at Dutch John early Archaic sites, although no "altithermal knives" (common at sites in Wyoming) have been found in the area (Johnson and Loosle 2000: 254). Projectile points recovered from northeastern Utah generally include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points.

The timing and nature of Late Archaic Dutch John occupations seems more comparable to the Wyoming Pine Springs and Deadman Wash phases (4300-2800 BP) than to the Uinta Basin Middle Archaic (5000-2500 BP) as described by Spangler (1995). The climate became warmer and drier, with the riparian habitat at Dutch John Flat being replaced by sagebrush grassland (Johnson and Loosle 2000:255). The most distinctive material trait of this time period (4100-3100 BP) is the slab-lined basin, probably used to process tubers and cactus pads that replaced previously available riparian resources. Non-local lithic materials were predominant during this time period, suggesting a high degree of mobility and short term visitation. Late Archaic (2800-1800 BP) occupation of the Dutch John area is represented by two rockshelters, one containing a slab-lined basin and hearth; the other containing two hearths and no basin. Hunting of rabbit and deer continued during this time period, however by 1840 BP the frequency of rabbit bone found at these sites decreases, while the frequency of deer-sized animals increases. Use of locally available lithic materials also increased during this time period.

Again, the Late Prehistoric period at Dutch John seems to best follow the chronologies for Wyoming, which Thompson and Pastor (1995:53-61) divide into two phases, the Uinta phase (ca. 1800-650 BP) and the Firehole phase (650-250 BP). During this time period, site density at Dutch John increased dramatically, accompanied with changes in material culture. Habitation preference changed from rockshelters to open air and brush structures. Excavated sites typically contain large quantities of fire-cracked rock, lithic debitage and tools, hammerstones, and groundstone (Johnson and Loosle 2000:255). Rose Spring points began to appear in this area around 1800 BP, suggesting the advent of the bow and arrow. Rabbit bone frequency increases at sites during this time period, however large mammals continued to be exploited. Non-local lithic material use increased, especially the use of Tiger chert, but use of some local materials continued. The presence of slab and basin metates increased dramatically. Rose Spring points and Fremont ceramics were found at two Dutch John brush structures dated to 1170 BP (Johnson and Loosle 2000:257). Both of these sites appear to have been Uinta Fremont seasonal habitation sites focused on hunting of medium to very large (elk and bison sized) game. However, these sites also exhibit some significant differences. The earlier site (42Da685, 1170 BP) contained high quantities of bone and debitage, fire-cracked rock, a hammerstone, and three pecking stones. No groundstone was found at the site, although two interior features contained cupules and a corn kernel. Corn was most likely not grown at Dutch John, however it may have been grown in small quantities along the flood plain of the Green River. Two ceramic vessels with a fired-on pattern were present at 42Da685. Use of local lithic material, primarily Dutch John chert, seems to have been preferred. The later site (42Da614), dated to 1070 BP, contained groundstone including two possible trough metates. The structure at this site was larger and had a more massive superstructure. Non-local Tiger chert was the predominant lithic material, and Uinta Fremont ceramics were typical (Johnson and Loosle 2000:257-258).

Fremont farming influence during the time period 1200-1070 BP is suggested by the presence of Rose Spring projectile points, groundstone, corn and ceramics at sites in the Dutch John area. Sites from this period are typical of warm season transitory sites in both Wyoming and the Uinta Basin. The temporal and material nature of Archaic Dutch John sites seems more indicative of use by mobile groups to the north, while the nature of the Fremont period sites suggests exploitation by local sedentary farmers with strong connections to Uinta Basin populations to the south (Johnson and Loosle 2000:258-259).

Environmental conditions brought an end to farming in northeastern Utah sometime between 1000-700 BP. The Firehole phase (650-250 BP) in Wyoming is characterized by a drastic reduction in site density, which Thompson and Pastor (1995) attribute to deterioration of environmental conditions or change in subsistence practices (Johnson and Loosle 2000:262). During this time period, Rose Spring points were replaced by Desert Side-notched points, and ceramics quantities are reduced and differ from those of the Fremont era. No sites dated between 1070 and 690 BP have been documented in the Dutch John area. It appears that the area received little occupation after 1000 BP. The occurrence of Desert Side-notched points and Intermountain Brown Ware sherds is believed to represent transitory use of the area during this time period, perhaps as a travel corridor (Johnson and Loosle 2000:262).

In most of Utah, the Fremont were replaced by Numic speakers by A.D. 1350. These Numic speaking people were ancestors of the modern Shoshone and Ute. No occupation of the Uinta Mountains is documented for this time period. The range created a natural boundary between the Shoshone to the north and the Utes to the south (Johnson, Parson, and Stebbins 1998:8-9). These groups traded with each other and with other Native American groups long before European fur traders entered the area.

The earliest recorded visit by Europeans to Utah was the Dominguez-Escalante Expedition, of 1776. John Hoback, Edward Robinson, and Jacob Reznor were likely the European-Americans on the northern slope of the Uinta Mountains in 1811. They were fur trappers with Andrew Henry's brigade. In 1822, Henry and William Ashley formed the Rocky Mountain Fur Company. Their crews trapped beaver along the Green River for 15 years, establishing trading posts at Henry's Fork, Little Hole, Dutch John Flat, and Brown's Hole. White trappers and Native Americans lived side by side in these camps (Johnson, Parsons, and Stebbins 1998:25). In 1837, Prewitt Sinclair, William Craig, and Phil Thompson established Fort Davy Crockett at Brown's Hole. This was a thriving meeting place and camp until the 1840s, when the fur trading industry as a whole fell into a slump as the demand for beaver declined (Johnson, Parsons, and Stebbins 1998:25-28).

Throughout the 1840s and 1850s the Green River area was occupied by mountaineers, Mormons, and prospectors expanding westward into Salt Lake City and California. Jim Bridger established Fort Bridger at Blacks Fork, which served as a resting place and trading post for emigrants heading west. Power struggles between Mormon pioneers and mountain men such as Bridger ultimately led to the establishment of a permanent Mormon settlement along the Green River. By 1853, John Nebeker and Isaac Bullock, under the leadership of Apostle Orson Hyde, had led 92 settlers to the newly established Mormon community of Fort Supply, located just 12 miles from Fort Bridger. In 1855, Bridger sold his fort to the Mormons. Conflicts between the federal and Mormon governments throughout the 1850s led to the abandonment of Forts Supply and Bridger, which the Mormons burned as they fled. By the end of the decade, the U.S. Army created an army post at Fort Bridger. Non-Mormons began settling in the area, one of the most prominent being William Carter. He became a merchant, rancher, postmaster, justice of the peace, and probate judge of Green River County. As more settlers reached the Green River area, the livelihood of the Shoshoni was compromised. In 1868, in the Treaty of Fort Bridger, it was agreed that the Shoshoni would move to a reservation in the Wind River Valley in Wyoming, where others would not be allowed to trespass. In 1868, when the territory of Wyoming was established, the state of Utah lost its northeastern corner. The northern slopes of the Uinta Mountains were made a part of Summit County in 1872, therefore bringing an end to the former Green River County (Johnson, Parsons, and Stebbins 1998: 34-54).

The eastern Uinta Mountains supported a ranching lifestyle in the latter half of the nineteenth century. Old mountain men continued herding livestock in the area after the collapse of the fur trade. The Henry's Fork and Brown's Park areas supported small subsistence ranching

communities (Johnson, Parsons, and Stebbins 1998 81-82). John Honselena (Dutch John) resided in the Dutch John area, trading horses with wagons heading west. Sir Griffeth W. Edwards brought the first domestic cattle to the Green River Corridor in 1869. In 1874, A. Hatch and Company stocked Browns Park and surrounding ranges with about 2500 cattle and a large band of horses. The open and remote ranges attracted cattle and horse rustlers to the area, who often used Browns Park and Little Hole as hideouts. Homesteading and ranching, spurred by government land grant programs, were responsible for most of the development of the Dutch John and Little Hole areas in the early twentieth century (Loosle and Ingram 2000:9-10).

The Uinta Forest Reserve was created on February 22, 1897, and included the Red Canyon and Dutch John areas. Dutch John became part of the Ashley National Forest in 1908, then was transferred to the Bureau of Reclamation in 1999. In January 1918, Daggett County was created north of the Uinta Mountains, and funds for a new school in Greendale, near Dutch John were available. Still, the Dutch John area saw little activity until the summer of 1957, when government housing and facilities were built in the area to support employees constructing the Flaming Gorge Dam. The resulting town came to be named Dutch John, a name which local residents had historically used for the area. Construction of the dam was completed in 1962. The filling of the dam destroyed the town of Linwood, and tourism replaced ranching as the main industry in other surrounding towns, as Flaming Gorge was designated a National Recreation Area in 1968. Today, the majority of Daggett County is government-owned, with only about 400 people residing in the county on a permanent basis (Loosle and Ingram 2000:9-12).

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project using a recreational GPS unit, which is considered 100% coverage. At the proposed well location, a 10 acre square parcel was defined, centered on the well pad center stake. The interior of the well locations were examined for cultural resources by the archaeologist walking parallel transects spaced no more than 10 meters apart. The access routes were surveyed to a width of 30 m (100 ft). Cultural resources were recorded using a handheld GEO XT Trimble GPS, program NAD 83, using UTMs in meter units in Zone 12. Permanent datums were placed at the sites consisting of a rebar and aluminum cap stamped with the temporary site number. Ground visibility was considered good. A total of 88.4 acres was inventoried on the Ashley National Forest of Vernal, Utah.

INVENTORY RESULTS

The inventory of EOG's four proposed well locations (Nutters Canyon 1-02, Road Hollow 1-35, Quitchampau #1-15, and Gilsonite #1-20) resulted in the location of a previously recorded site (42DC1648), documentation of three new sites (42Dc2018, 42Dc2019 and 42Dc2020), and four culturally modified trees (CMT-1,2,3,4).

Archaeological Sites

Smithsonian Site No.: 42Dc1648
US Forest Service Site No.: AS-1661
Temporary Site No.: SBE-2
NRHP Eligibility: Eligible
Description: This site was recorded in October of 2003 by SWCA, Inc. Environmental Consultants (Lindsay, 2004). MOAC revisited the site while surveying the proposed Nutters Canyon #1-02 well location. The site is a low density, widely dispersed, prehistoric lithic scatter. It is located on a ridge top between Nutters Canyon and Right Antelope Canyon, surrounded by sagebrush, aspen, and grasses. The artifact assemblage consisted of 104 flakes, mostly tertiary flakes and many secondary flakes. The dominant material type was cream-colored siltstone with white, grey, and brown chert. Found at the site was one utilized flake with pressure flaking along one lateral margin. Two Elko corner-notched projectile point proximal ends with midsections were also present. The site was considered to be Archaic in cultural affiliation, based on the Elko points.

Smithsonian Site No.: 42Dc2018
US Forest Service Site N.: AS-01725
Temporary Site No.: MOAC 05-209-01
NRHP Eligibility: Eligible
Description: This site is a prehistoric lithic scatter, situated on a gently sloping ridge. The site is surrounded by sagebrush and aspen groves are located in the background. A dirt road runs through the site, and cultural material is located on both sides of the road. The artifact assemblage consists of 48 flakes made from white and grey opaque chert, and white opaque quartzite. Flake shatter was dominate while secondary flakes were common. Only two tertiary flakes were found and are made from creamy white opaque chert. The cultural affiliation is unknown due to lack of datable materials at the site.

Smithsonian Site No.: 42Dc2019
US Forest Service Site No.: AS-01726
Temporary Site No.: MOAC 05-209-02
NRHP Eligibility: Eligible
Description: This is a prehistoric lithic scatter situated on a ridge top. The site is surrounded by sagebrush, while aspen groves are located nearby. A dirt road runs through the site, and cultural material is located on both sides of the road. Cultural materials include 210 flakes consisting of mainly secondary flakes and shatter. Debitage is manufactured from a variety of chert types. An Elko Side-notched projectile point made from opaque tan chert was located on the site. The dimensions are 2.9 cm long x 1.8 cm wide x 0.5 cm thick. The cultural affiliation is most likely Archaic, although Elko Series points are also found at Formative Stage sites.

Smithsonian Site No.: 42Dc2020
US Forest Service Site No.: AS-01727
Temporary Site No.: MOAC 05-209-04
NRHP Eligibility: Eligible
Description: This is a prehistoric lithic scatter of unknown temporal affiliation situated on a ridge top. The site is surrounded by sagebrush while aspen groves are located near the site. A dirt road runs through the site and cultural material occurs on either side. Cultural materials consist of 56 flakes manufactured from opaque tan, white, grey and brown chert and brown opaque quartzite. Shatter was the most dominant with secondary flakes being common among the represented flake stages. One opaque tan chert core was located on the site. No cortex remained on the cobble and approximately 39 multidirectional flake scars were observed.

Culturally Modified Trees

Table 2. Culturally Modified Trees (CMT) with Legal Location, UTM Coordinates, and Descriptions

Isolated Find #	Legal Description	UTM Coordinates	Description
CMT-1	NW/SW/NW Sec. 3 T7S, R5W	547593E/4417320N	The CMT is located on an aspen tree and exhibits inscriptions "MAY Roimal Virgil 1929"
CMT-2	NW/SW/NW Sec. 3 T7S, R5W	547595E/4417321N	The CMT is located on an aspen tree and displays three illegible characters above the date "4//54"
CMT-3	NW/SW/NW Sec. 3 T7S, R5W	547593E/4417327N	The CMT is located on an aspen tree and exhibits illegible inscriptions and date.
CMT-4	NW/NW/NW Sec. 2 T7S, R5W	549378E/4417727N	The CMT is located on an aspen tree and has four Spanish names and locations "El Rito NM" and "Taos NM".

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

> The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:
>
> a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> b)...are associated with the lives of persons significant to our past; or
>
> c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
>
> d)...have yielded or may be likely to yield information important in prehistory or history.

The three new recorded sites (42Dc2018, 42Dc2019, and 42Dc2020) are recommended as eligible to the NRHP under Criterion D because they are likely to contribute to the prehistoric research domains of the area. These sites are prehistoric lithic scatters some which contain tools or temporal indicators as well as spatial patterning. The sites occur in deposition with good depth potential and may yield additional cultural materials or features. Previously documented site 42Dc1648, a lithic scatter, has been evaluated by SWCA, Inc. as eligible to the NRHP under Criterion D.

The four Culturally Modified Trees (CMT) are not recommended eligible to the NRHP because they are unlikely to represent important persons, lack associated cultural material, and do not yield pertinent information to the history of the region.

CONCLUSIONS AND RECOMMENDATIONS

The cultural resource inventory for EOG's four proposed wells resulted in the location of four archaeological sites (42Dc1648, 42Dc2018, 42Dc2019 and 42Dc2020) which are considered eligible to the NRHP. It is recommended that these eligible sites be avoided by the undertaking. The following recommendations are proposed: (1) the access into proposed Nutters Canyon #1-02 well locations needs to be re-routed to avoid site 42Dc2019; (2) reroutes around sites 42Dc1648, 42Dc2018, and 42Dc2020 will only be required if road "construction" (beyond normal maintenance) is proposed on the surface of these eligible sites; 3) a qualified archaeologist should monitor any "construction" activities along the access corridor to Nutters Canyon #1-02 in the area of sites 42Dc1648, 42Dc2018, and 42Dc2020. Based on adherence to the recommendations, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

REFERENCES CITED

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1986 *Geology of Utah*. Utah Museum of Natural History, University of Utah, Salt Lake City.

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APPENDIX A

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS (42Dc2018, 42Dc2019, and 42Dc2020)

On File At:

Utah Division of State History
Salt Lake City, Utah

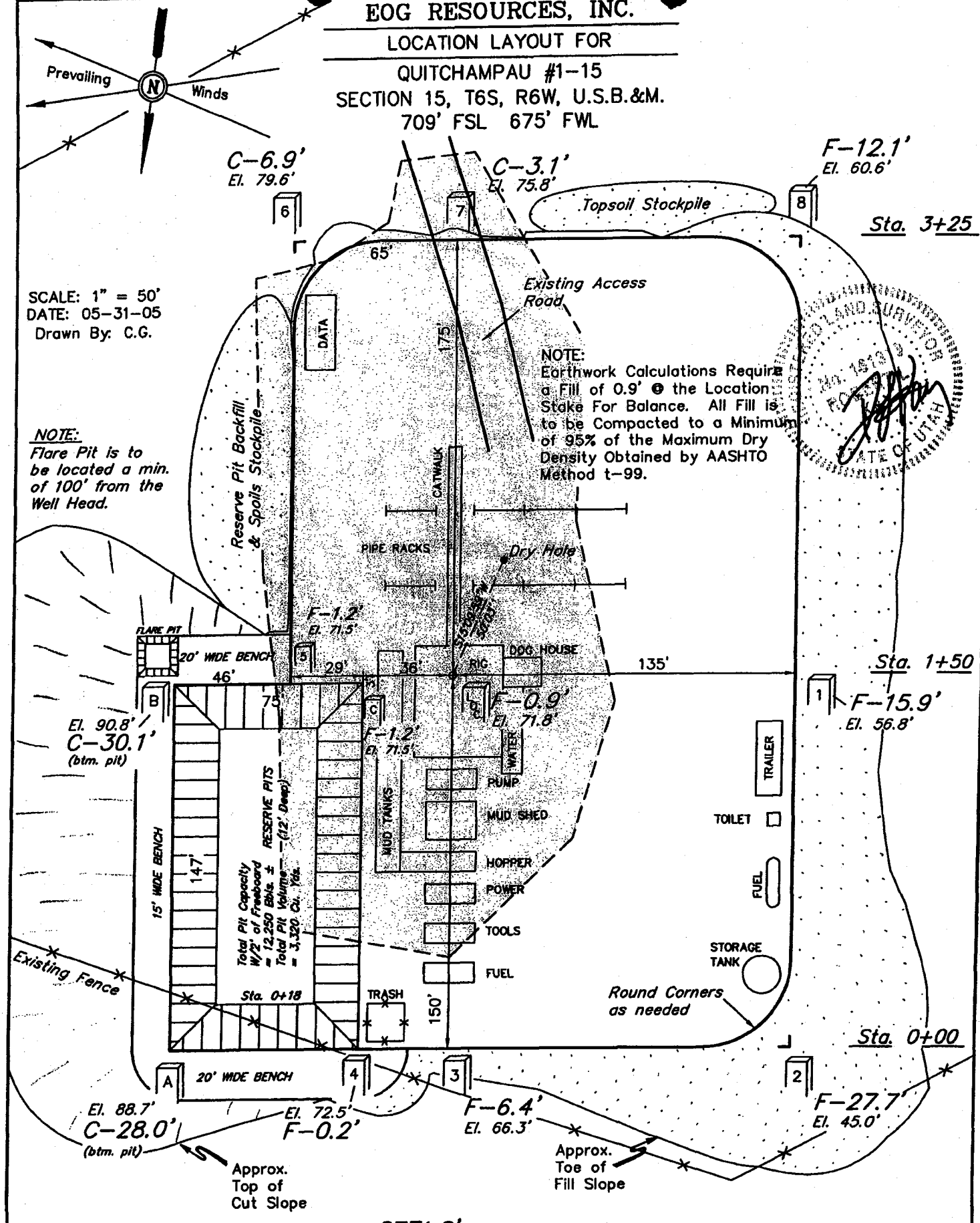
EOG RESOURCES, INC.

LOCATION LAYOUT FOR

QUITCHAMPAU #1-15

SECTION 15, T6S, R6W, U.S.B.&M.

709' FSL 675' FWL



SCALE: 1" = 50'
DATE: 05-31-05
Drawn By: C.G.

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

NOTE:
Earthwork Calculations Require a Fill of 0.9' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

STATE OF UTAH — REGISTERED LAND SURVEYOR — No. 161319 — FOR

Elev. Ungraded Ground at Location Stake = 8771.8'

Elev. Graded Ground at Location Stake = 8772.7'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

EOG RESOURCES, INC.

TYPICAL CROSS SECTIONS FOR

QUITCHAMPAU #1-15

SECTION 15, T6S, R6W, U.S.B.&M.

709' FSL 675' FWL

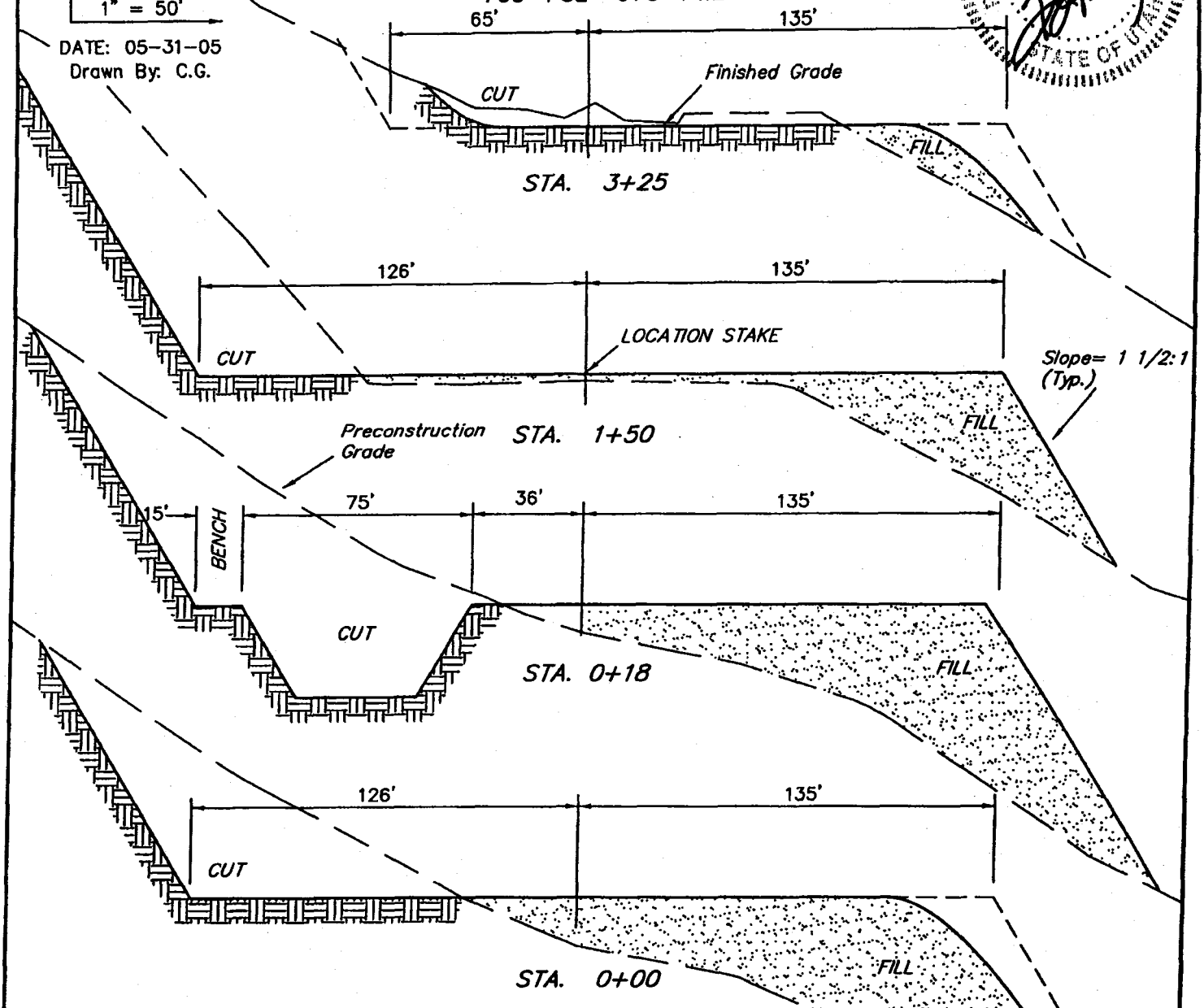
1" = 20'

X-Section Scale

1" = 50'

DATE: 05-31-05

Drawn By: C.G.



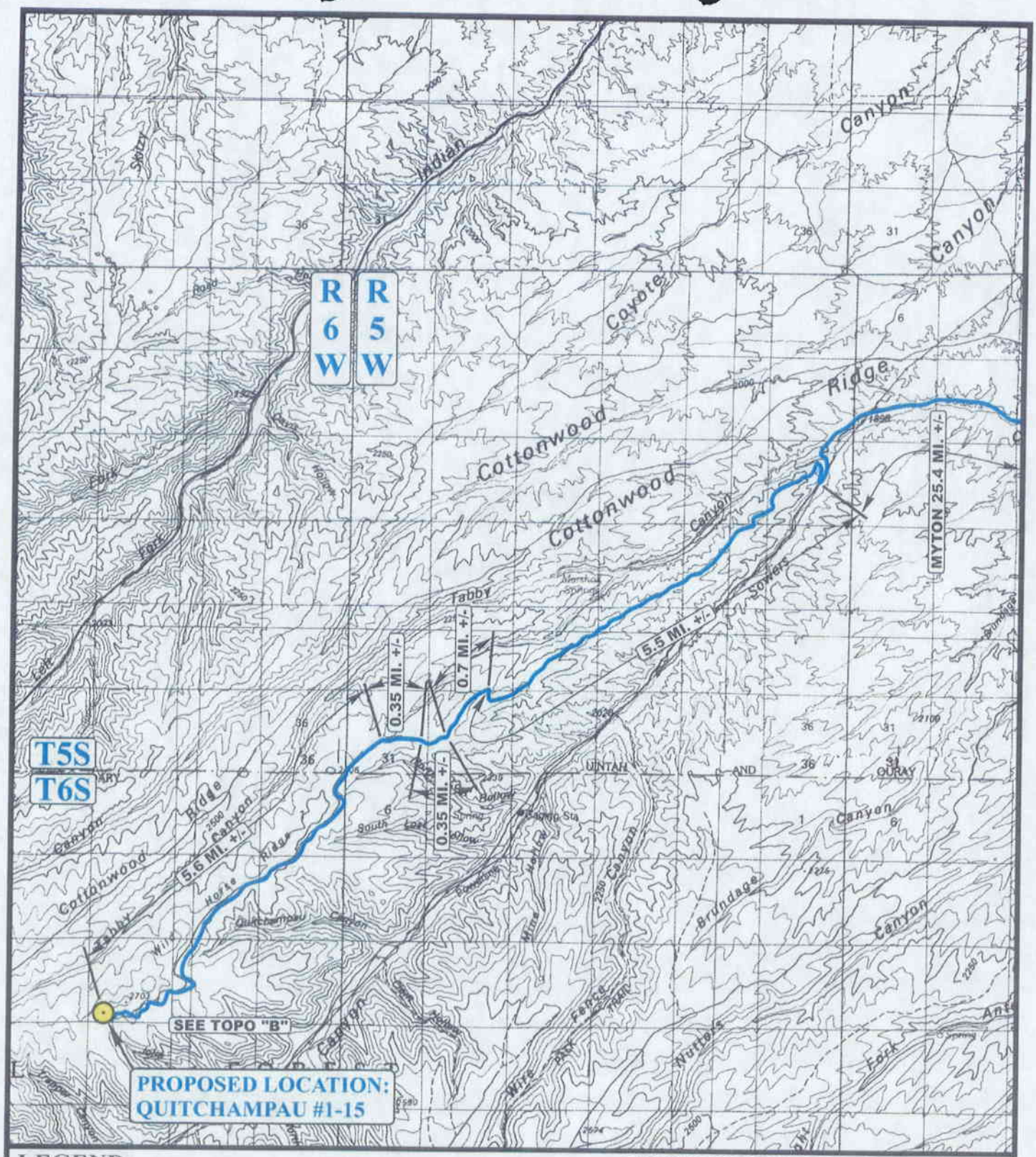
* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	2,300 Cu. Yds.
Remaining Location	=	19,700 Cu. Yds.
TOTAL CUT	=	22,000 CU.YDS.
FILL	=	18,040 CU.YDS.

EXCESS MATERIAL	=	3,960 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,960 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



LEGEND:

PROPOSED LOCATION

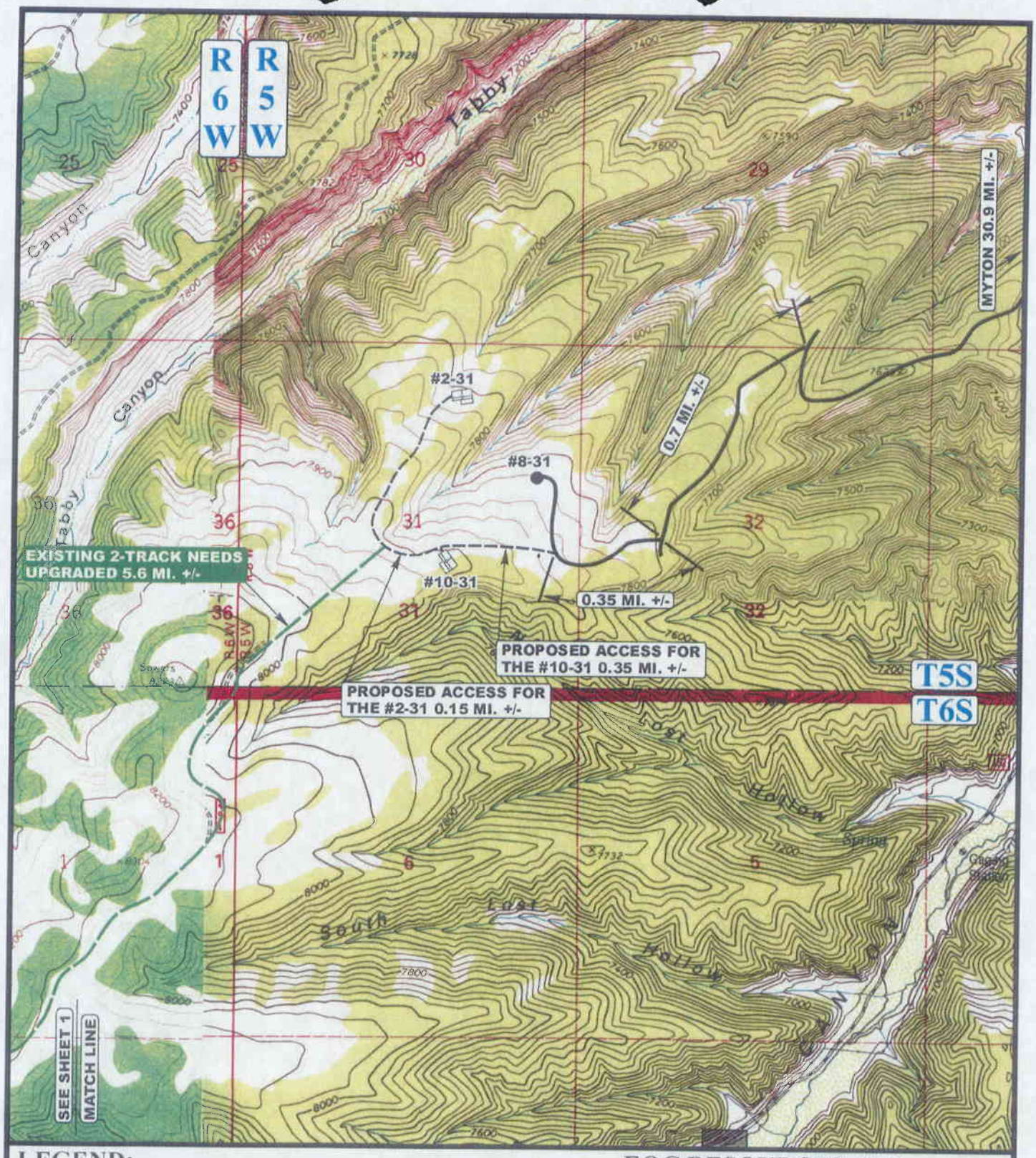
N

EOG RESOURCES, INC.

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	06 MONTH	06 DAY	05 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

EXISTING 2-TRACK NEEDS UPGRADED

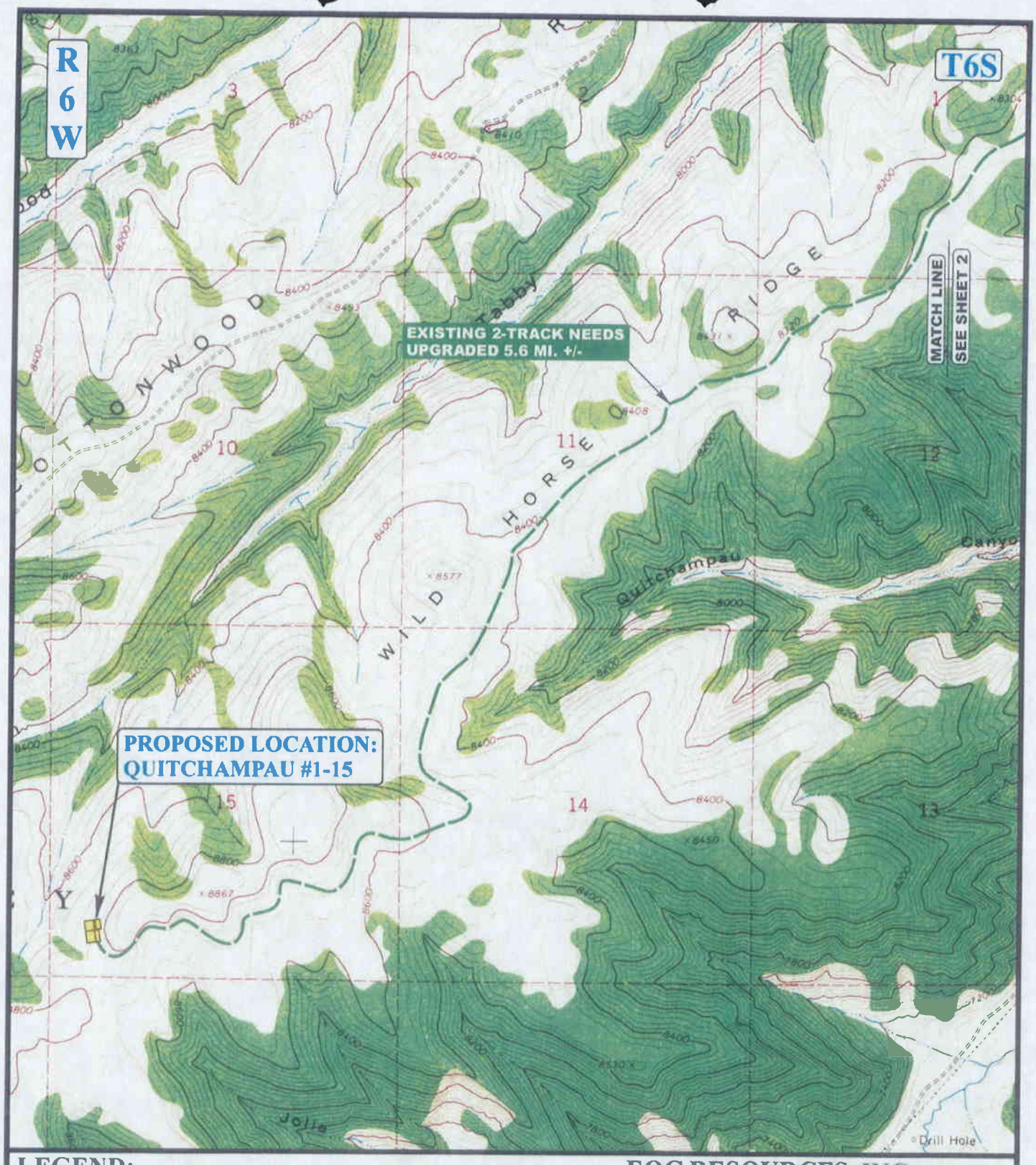
N

EOG RESOURCES, INC.

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	06 MONTH	06 DAY	05 YEAR	B2 TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

EXISTING 2-TRACK NEEDS UPGRADED

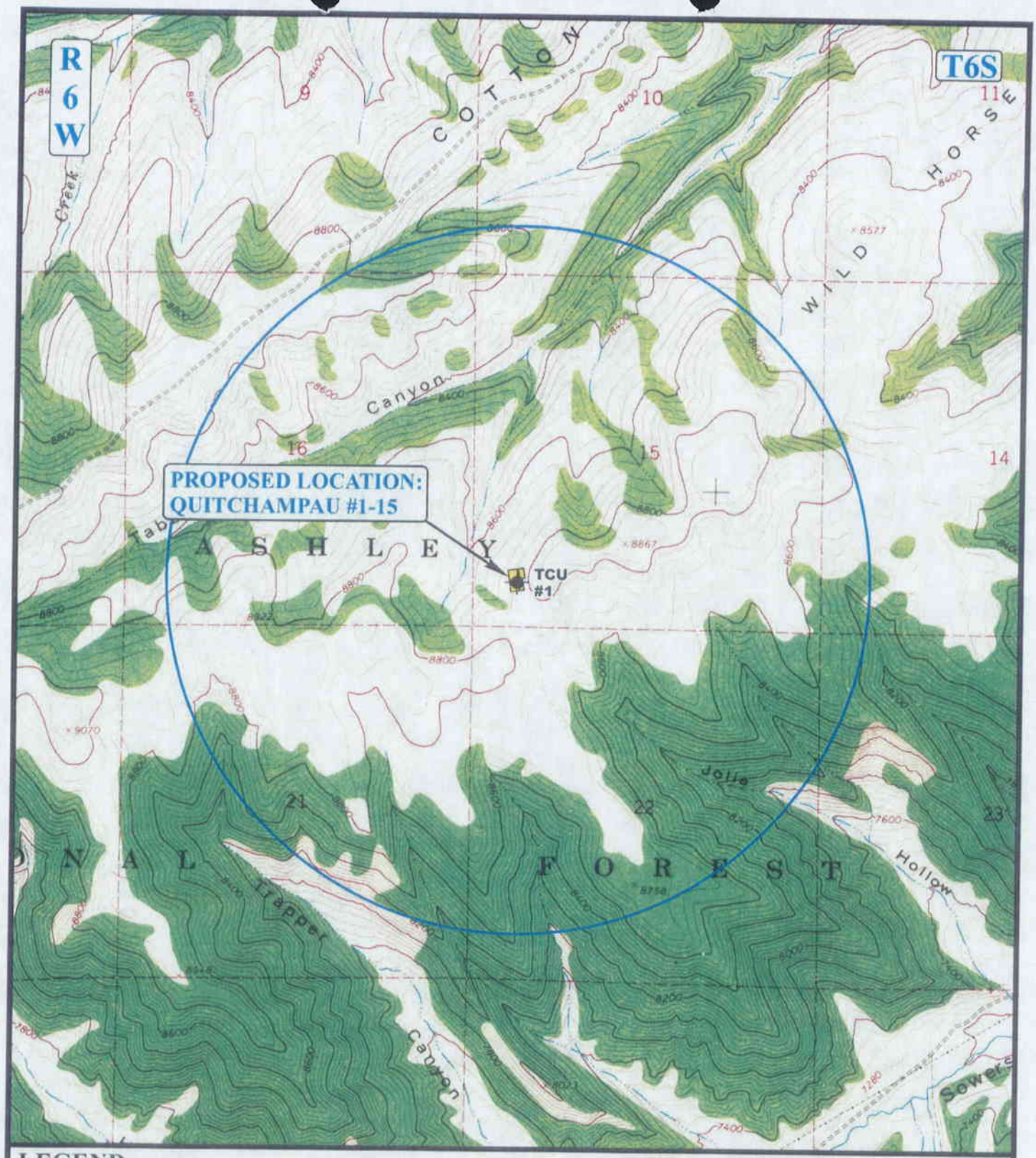
N

EOG RESOURCES, INC.

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	06 MONTH	06 DAY	05 YEAR	B1 TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

EOG RESOURCES, INC.

QUITCHAMPAU #1-15
SECTION 15, T6S, R6W, U.S.B.&M.
709' FSL 675' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	06 MONTH	06 DAY	05 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/31/2005

API NO. ASSIGNED: 43-013-32940

WELL NAME: QUITCHAMPAU 1-15

OPERATOR: EOG RESOURCES INC (N9550)

CONTACT: KAYLENE GARDNER

PHONE NUMBER: 307-276-4842

PROPOSED LOCATION:

SWSW 15 060S 060W

SURFACE: 0709 FSL 0675 FWL

BOTTOM: 0709 FSL 0675 FWL

DUCHESNE

WILDCAT (1)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-78212

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: BLKHK

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.95462

LONGITUDE: -110.5523

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. NM-2308)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 49-1501)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit

✓ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

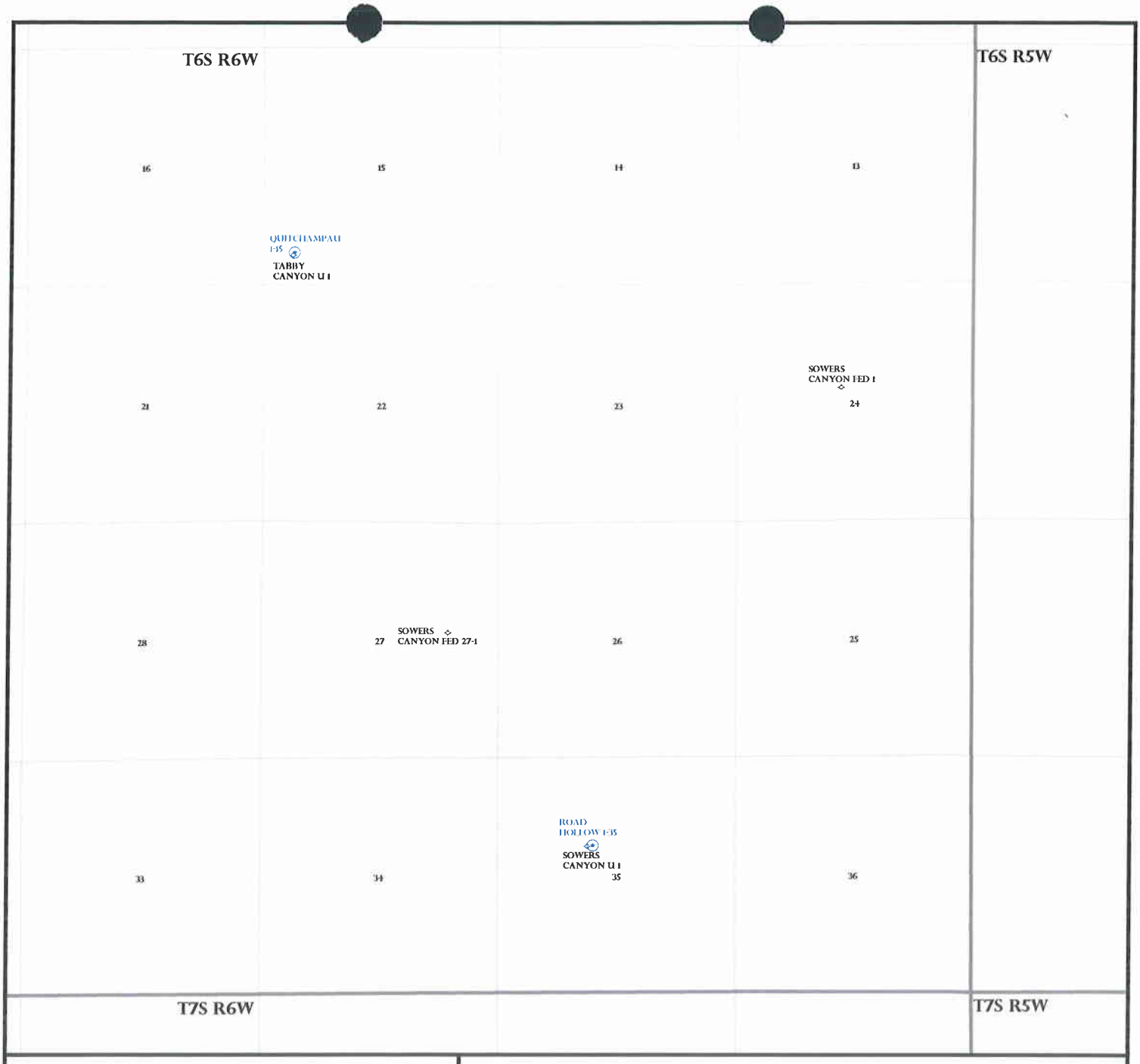
___ R649-3-3. Exception

___ Drilling Unit
Board Cause No:
Eff Date:
Siting:

___ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1- Federal Approval
2- Spacing Stip



OPERATOR: EOG RESOURCES INC (N1095)

SEC: 15,35 T. 6S R. 6W

FIELD: WILDCAT (001)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA WHITNEY
DATE: 1-NOVEMBER-2005

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

November 1, 2005

EOG Resources, Inc.
600 17th St., Ste. 1100N
Denver, CO 80202

Re: Quitchampau 1-15 Well, 709' FSL, 675' FWL, SW SW, Sec. 15, T. 6 South, R. 6 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32940.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: EOG Resources, Inc.

Well Name & Number Quitchampau 1-15

API Number: 43-013-32940

Lease: UTU-78212

Location: SW SW **Sec.** 15 **T.** 6 South **R.** 6 West

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

eog resources

EOG Resources, Inc.
211 South 1000 East
Vernal, UT 84078
P.O. Box 1815
Vernal, UT 84078
(435) 789-0790

43-013-32940

March 24, 2006

Mr. Michael Lee
Bureau of Land Management
1770 South 500 East
Vernal, Ut 84078

RE: Quitchampau 1-15
709 FSL 675 FWL
SW/SW, Section 15, T6S, R6W
Duchesne County, UT

Dear Mr. Lee:

Attached please find an amended Eight Point Drilling Plan for the referenced pending Application to Drill.

Sincerely,

Kaylene R. Gardner
Regulatory Assistant

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
APR 05 2006
DIV. OF OIL, GAS & MINING

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	DEPTH (KB)	OBJECTIVE
Green River	1,381'	
Wasatch	5,996'	
Dark Canyon	9,911'	
KMV Price River	10,353'	
KMV Price River Middle	11,247'	
Bluecastle	11,884'	
KMV Price River Lower	12,213'	
KMV Castlegate	12,556'	GAS
Pressure Top	12,557'	
KMV Blackhawk	12,859'	GAS
Sunnyside	13,273'	GAS
Kenilworth	13,642'	GAS
Aberdeen	13,810'	GAS
Spring Canyon	14,313'	GAS

EST. TD: 14,400' ±100' below Spring Canyon top **Anticipated BHP 8200 PSI**

Fresh water zones may exist anywhere in the upper 4000' of the well. All such zones will be isolated by cement to surface.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 11". 5000 PSI BOPE
BOP schematic diagrams attached.

Intermediate Hole:
13 5/8", 5000 PSI.
Annular 13 5/8" rotating head to be used as a diverter.

4. CASING PROGRAM:

								RATINGS		
HOLE	SIZE	INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	CONN	COLL. PSI	BURST PSI	TENS PSI
Surface:	17 1/2"	0' - 300'± KB	300' ±	13 3/8"	48.0 #	H-40	ST&C	740 PSI	1730 PSI	322,000#
Intermediate	12 1/4"	300' - 5100'± KB	5100' ±	9 5/8"	40.0#	N-80	LT&C	3090 PSI	5750 PSI	737,000#
Production:	7 7/8"	5100' – TD ± KB	14,400' ±	4 1/2"	13.5 #	P-110	LT&C	10670 PSI	12410 PSI	338,000#

All casing will be new or inspected.

Note: 12 ¼" surface hole will be drilled to a total depth of ± 200' below the base of the Green River lost circulation zone and cased with 9 5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 5100' shown above depending on the actual depth of the loss zone.

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0-300' Below GL):
Guide Shoe
Wooden wiper plug
Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

Intermediate Hole Procedure (300'-5100'):
Guide Shoe
Insert Float Collar (PDC drillable)
Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface.

Production Hole Procedure (5100'-TD):
FS, 1 joint of casing, FC, and balance of casing to surface. Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above top of shallowest potentially-productive zone. Thread lock FS, top and bottom of FC, and top of 2nd joint.

6. MUD PROGRAM

Surface Hole Procedure (0-300' below GL):
Air /air mist or aerated water

Intermediate Hole Procedure (300'-5100'):
Water (circulate through reserve pit) with Gel/LCM sweeps.

Production Hole Procedure (5100'-TD):
5100'- 10'000': Reserve pit water. Circulate through reserve pit with Gel/LCM and PHPA sweeps as needed.

10,000'-TD: Weighted LSND, 9-11 PPG, 9 – 10 pH, less than 20 cc's water loss. Run LCM sweeps periodically to seal off loss zones or more often as hole dictates. Expect increasing gas shows requiring heavier mud weights from the top of the Price River onward. Treat CO2 contamination with DESCO CF if mud properties dictate.

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

While drilling surface hole, EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be 75' in length.

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

8. EVALUATION PROGRAM:

Logs: Mud log from base of surface casing to TD. Schlumberger Platform Express with Di-pole Sonic from TD to base of surface casing in 1 run. Rotary sidewall cores as needed and based upon results from first log run.

9. CEMENT PROGRAM:

Surface Hole Procedure (0-300' Below GL)
Lead: 360 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl2) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

Top Out: Top out with Class 'G' cement with 2% S1 (CaCl2) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Intermediate Hole Procedure (300'-5,100')
Lead: 460 sx. (50% excess volume) Class 'G' lead cement (coverage from 4100'-300') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft3/sk., 24.5 gps water.

Tail: 290 sx. (50% excess volume) Class 'G' cement (coverage from 5100'-4100') with 10% D53 (Gypsum), 2% S1 (CaCl2) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft3/sk., 7.9 gps water.

If openhole logs are run in intermediate hole, cement volumes will be based on openhole log caliper volume plus 10% excess.

Production Hole Procedure (5100' to TD)
Lead: 700 sx Hi-Lift G (coverage from 400' above top productive interval to 4900' (± 200' into intermediate casing)) w/ 12% D20 (Bentonite), 0.2% D46 (Antifoamer), 0.2% D167 (Fluid Loss Additive), 0.05 % D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 11.5 ppg, 3.02 cu. ft./sk., 18.6 gps water.

Tail: 460 sx 50:50 Poz:G (coverage from TD to 400' above top productive interval) w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

Note: Production string cement volumes shown are based on gauge hole +30% excess and assuming a top productive zone at 12,400'. Actual volumes will be based upon open hole caliper log volume plus 5% excess and top of tail cement zlurry to 400' above the highest indicated productive interval. Tail cement composition will be adjusted as needed for bottom hole temperature indicated on open hole logging tools.

EIGHT POINT PLAN
QUITCHAMPAU 1-15
SW/SW, SEC. 15, T6S, R6W
DUCHESNE COUNTY, UTAH

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (300'-5100')

Potential Problems: Lost circulation through this section and minor amounts of gas may be present. Hydrocarbon shows and/or water zones will be monitored for and reported.

PRODUCTION HOLE (5100'-TD)

Potential Problems: Research indicates that mud losses are possible throughout all of the 7-7/8" hole. Sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

A. Choke Manifold
B. Upper and Lower Kelly Cock
C. Stabbing Valve
D. Electronic/mechanical Mud monitoring equipment (PVT)

12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	UTU-78212
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER:	QUITCHAMPAU 1-15
9. API NUMBER:	43-013-32940
10. FIELD AND POOL, OR WILDCAT:	NATURAL BUTTES

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

2. NAME OF OPERATOR: EOG RESOURCES, INC.

3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 789-0790

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 709 FSL 675 FWL COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 15 6S 6W S.L.B. & M STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD EXTENSION REQUEST
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 11-02-06

By:

COPY SENT TO OPERATOR
Date: 11.3.06
Initials: RM

NAME (PLEASE PRINT) Kaylene R. Gardner TITLE Sr. Regulatory Assistant

SIGNATURE DATE 10/31/2006

(This space for State use only)

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(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-32940
Well Name: QUITCHAMPAU 1-15
Location: 709 FSL 675 FWL (SWSW), SECTION 15, T6S, R6W S.L.B.&M
Company Permit Issued to: EOG RESOURCES, INC.
Date Original Permit Issued: 11/1/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐ No☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐ No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐ No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐ No☑

Has the approved source of water for drilling changed? Yes☐ No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐ No☑

Is bonding still in place, which covers this proposed well? Yes☑ No☐

Signature

10/31/2006
Date

Title: SR. REGULATORY ASSISTANT

Representing: EOG RESOURCES, INC.

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CONFIDENTIAL

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-78212

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: QUITCHAMPAU 1-15

2. NAME OF OPERATOR: EOG RESOURCES, INC.

9. API NUMBER: 43-013-32940

3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 789-0790

10. FIELD AND POOL, OR WILDCAT: Exploratory

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 709' FSL & 675' FWL 39.954536 LAT 110.552833 LON

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 15 6S 6W S.L.B. & M

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD EXTENSION REQUEST
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 10-10-07

By:

10-11-07
km

NAME (PLEASE PRINT) Mary A. Maestas TITLE Regulatory Assistant

SIGNATURE Mary A. Maestas DATE 10/4/2007

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[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-32940
Well Name: QUITCHAMPAU 1-15
Location: 709 FSL 675 FWL (SWSW), SECTION 15, T6S, R6W S.L.B.&M
Company Permit Issued to: EOG RESOURCES, INC.
Date Original Permit Issued: 11/1/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Mary A. Maestas
Signature

10/4/2007
Date

Title: REGULATORY ASSISTANT

Representing: EOG RESOURCES, INC.

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Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **10/1/2007**

FROM: (Old Operator):	**TO:** (New Operator):
N9550-EOG Resources, Inc.	N3295-Vantage Energy Uinta, LLC
600 17th St, Suite 1000N	116 Inverness Dr East, Suite 107
Denver, CO 80202	Englewood, CO 80112
Phone: 1 (303) 824-5582	Phone: 1 (303) 386-8600

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
QUITCHAMPAU 1-15	15	060S	060W	4301332940		Federal	GW	APD	C
NUTTERS CYN 1-2	02	070S	050W	4301332942		Federal	GW	APD	C

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/18/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/18/2008
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 10/30/2007
4a. Is the new operator registered in the State of Utah: _____ Business Number: 6584978-0161
4b. If **NO**, the operator was contacted contacted on:
5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 7/31/2008
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 7/31/2008
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 7/31/2008

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000288
2. Indian well(s) covered by Bond Number: n/a
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number n/a
3b. The **FORMER** operator has requested a release of liability from their bond on: _____
The Division sent response by letter on:

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-78212

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Transfer APD

8. WELL NAME and NUMBER: Quitchampau 1-15

2. NAME OF OPERATOR: EOG Resources, Inc N9550

9. API NUMBER: 4301332940

3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N Denver CO 80202

PHONE NUMBER: (303) 824-5582

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 709' FSL & 675' FWL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 15 T6S R6W 6

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Vantage Energy Uinta LLC (Vantage) has purchased the reference lease from EOG Resources Inc (EOG) effective October 1, 2007. Vantage is now considered to be the operator of this lease and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Vantage requests the referenced well's APD be transferred from EOG to Vantage.

Vantage Energy Uinta LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112

N3295
BOND = UTB000288

Mark Rothenberg
Senior Engineer

Date: 6/30/08
(303) 386-8600

NAME (PLEASE PRINT) Amber Schafer TITLE Operations Clerk

SIGNATURE Amber Schafer DATE 7/15/08

(This space for State use only)

APPROVED 7/31/08

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JUL 18 2008
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(5/2000) (See Instructions on Reverse Side)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	QUITCHAMPAU 1-15			
API number:	4301332940			
Location:	SWSW	15	6S	6W
Company that filed original application:	EOG RESOURCES INC			
Date original permit was issued:	11/01/2005			
Company that permit was issued to:	EOG RESOURCES INC			

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
✓	**Transfer approved Application for Permit to Drill to new operator**
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		✓
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. UTB000288	✓	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Mark Rothenberg Title Senior Engineer

Signature Date 6/30/08

Representing (company name) Vantage Energy Uinta LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 5

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: Quitchampau (Exxon Mobil Corp.)

LEASE NUMBER: UTU78212

and hereby designates

NAME: Vantage Energy Uinta LLC

ADDRESS: 116 Inverness Drive East, Suite 107

city Englewood state CO zip 80112

as his (check one) agent ☐ / operator ☑, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

UTU78212 - VERNAL FIELD OFFICE DUCHESNE ASHLEY NF:
T6S R6W Sec. 13: ALL; T6S R6W Sec. 14: ALL; T6S R3W Sec. 15: ALL; T6S R6W Sec. 16: ALL;
T6S R6W Sec. 17: ALL; T6S R6W Sec. 18: ALL; T6S R6W Sec. 19: ALL; T6S R6W Sec. 20: ALL;
T6S R6W Sec. 21: ALL; T6S R6W Sec. 22: ALL; T6S R6W Sec. 23: ALL; T6S R6W Sec. 24: ALL.

Plugged & Abandoned: Sowers Canyon Fed 1 - API No. 43-013-10420
Tabby Canyon U 1 - API No. 43-013-30053

Proposed: Quitchampau 1-15 - API No. 43-013-32940

Sec 15 T6S R6W

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 06/30/2008

BY: (Name) CHARLES E. ARNOLD
(Signature)
(Title) ATTORNEY-IN-FACT
(Phone) 713-431-2068

OF: (Company) Exxon Mobil Corporation Lessee
(Address) PO Box 4610
city Houston
state TX zip 77210-4610

(5/2000)

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DIV. OF OIL, GAS & MINING

Form 3160-3
(February 2005)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES RECEIVED
DEPARTMENT OF THE INTERIOR VERNAL FIELD OFFICE
BUREAU OF LAND MANAGEMENT
2008 JUL 14 PM 1 32

APPLICATION FOR PERMIT TO DRILL OR REENTER

DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

5. Lease Serial No.: UTU-78212

6. If Indian, Allottee or Tribe Name: NA

1a. Type of work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.: NA

1b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.: Quitchampau 1-15

2. Name of Operator: **Vantage Energy Uinta LLC**
E-mail: mark.rothenberg@vantageenergy.com
Contact: Mark Rothenberg

9. API Well No.: 43-013-32940

3a. Address: 116 Inverness Drive East, Suite 107, Englewood CO 80112

3b. Phone No. *(include area code)*: 303-386-8600

10. Field and Pool, or Exploratory: EXPLORATORY

4. Location of Well *(Report location clearly and in accordance with any State Requirements.*)*

At surface: 709' FSL, 675' FWL (SW/SW)

At proposed production zone: 1980' FSL, 660' FWL (NW/SW)

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 15 T 6S R 6W
Meridian: U.S.B.&M.

14. Distance in miles and direction from nearest town or post office. *: 38.1 MILES SOUTHWEST OF MYTON, UTAH

12. County or parish: DUCHESNE

13. State: UT

15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drig, unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
LEASE/DRLG UNIT 4,571 FT/645 FT	7624	40 ACRES
18. Distance from proposed location* to nearest well, drilling, completed or applied for, on this lease, ft.	**19. Proposed depth**	**20. BLM/BIA Bond No. on file**
SEE TOPO MAP "C"	7,000' TVD	UTB000288
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	**22. Approximate date work will start ***	**23. Estimated duration**
8772.7 FT GRADED GROUND	6/1/2006	45 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
Title: Senior Engineer for Vantage Energy Uinta LLC	Mark Rothenberg 303-386-8600	10/27/2005

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title: Assistant Field Manager Lands & Mineral Resources	Office: VERNAL FIELD OFFICE	8-6-2008

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

(continued on page 2)

*(Instructions on page 3)

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AUG 12 2008
DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

UDOGM

07BM4496A

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Vantage Energy Uinta LLC**	**Location:**	**SWSW, Sec. 15, T6S, R6W**
Well No:	**Quitchampau 1-15**	**Lease No:**	**UTU-78212**
API No:	**43-013-32940**	**Agreement:**	**N/A**

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

See Attached Forest Service Surface Use Plan of Operations (SUPO) - Conditions of Approval.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- All 2M BOPE shall met the requirements of Onshore Order #2, including the requirement for ram preventers to be one pipe ram and one blind ram. If 3M BOPE equipment is provided by the drilling contractor, the BOPE equipment shall be tested to 2M BOPE test requirements.
- The top of the production casing cement shall extend a minimum of 200 feet above the surface casing shoe.
- Test surface casing to the greater of .22 psi/ft casing length (77 psi) or 1500 psi.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 35' from the well bore.
- Automatic igniter or continuous pilot light on the blooie line. Variance granted to not have an igniter or continuous pilot light, only drilling to 350' and Uinta is usually not hydrocarbon bearing in this area.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressor located 50 feet from the well bore on the opposite side from the blooie line.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Vantage Energy Unita LLC	Well Name &Number: Quitchampau 1-15
Lease number: UTU-78212	Location: SWSW Sec15, T6S, R6W
Surface Ownership: FS	Date: 07/30/2008
Date APD Received: 10-28-2005	NOS Received:

The following is a list of conditions of approval, for the proposed well noted above, which are being required by the Ashley National Forest. These conditions are in addition to those listed in the Surface Use Plan of Operations (SUPO) and APD that were submitted for the proposed well.

Vegetation Resources

- To reduce the spread/introduction of noxious and invasive weed species via project-related vehicles and equipment into the Project Area, Vantage and its contractors would power-wash all construction equipment and vehicles prior to the start of construction.

- During the construction phase of the project, Vantage will implement an intensive reclamation and weed control program after each segment of project completion. Vantage will reseed all portions of well pads and the ROW not utilized for the operational phase of the project, as well as any sites within the Project Area determined necessary by the USFS. Reseeding will be accomplished using native plant species indigenous to the Project Area. Post-construction seeding applications will continue until determined successful by the USFS. Weed control will be conducted through an Approved Pesticide Use and Weed Control Plan from the Authorized Officer. Weed monitoring and reclamation measures will be continued on an annual basis (or as frequently as the Authorized Officer determines) throughout the 30 year life of the project.

Wildlife Protection

- Prior to any surface disturbing activity between April 30 and August 31, Vantage or their contractor, in coordination with a USFS Biologist, would survey all areas within 0.25 mile of proposed surface disturbance for the presence of raptor nests. If occupied/active raptor nests are found, construction would not occur during the critical nesting season for that species within the species-specific spatial buffer, unless the nest is obscured from visual or noise-related impacts through vegetative or topographic screening. USFS

biologists would determine spatial buffers based on site-specific vegetative and topographic features within the vicinity of occupied nests.

- Well pad and road construction, roads upgrading, and drilling operations will not be conducted between November 15 and April 30, to protect elk winter range.

Access Roads

- Construction or upgrading of roads would not be allowed during muddy or frozen conditions. Should mud holes develop, they would be filled in and detours around them are not allowed.

- Where road developments cross existing cattle fences, cattle guards will be installed and fences will be repaired to functioning condition.

- As needed, Berry would apply water to utilized roads to reduce fugitive dust from vehicle traffic. If water application does not adequately reduce fugitive dust, the use of Magnesium Chloride (MgCl) would be considered.

- Road drainage crossings for new or upgraded roads will be designed so they do not cause siltation or accumulation of debris in the drainage crossing, and drainages will not be blocked by the roadbed.

Pipelines

- Where possible, pipelines will be buried along major access corridors and in areas where surface pipelines would be at risk from environmental hazards (stream crossings, debris flow fans, etc.).

Soils / Water / Floodplains / Wetlands

- Vegetation and/or structural measures to control erosion will be implemented as soon as possible after initial soil disturbance to prevent erosion of disturbed soils.

- Energy dissipaters such as straw bales and silt fences may be required to prevent excess erosion of soils from disturbed areas into adjacent surface waters or floodplains. These structures would be installed during construction, and would be left in place and maintained for the life of the project or until the disturbed slopes have revegetated and stabilized.

Noise

- Pump jack engines would be equipped with high grade mufflers to reduce noise during the operational life of the project.

Reserve Pit or Closed Loop

- All pits containing materials that might be hazardous to wildlife would be covered with steel mesh screen or netting to prevent entry by migratory birds, bats, or other wildlife species.

- The reserve pit would be lined with 20 mil synthetic reinforced material. The liner would overlay a felt liner pad which would protect the liner from punctures if rock is encountered during excavation.

- Transport the cuttings off-site and off-Forest for disposal at an appropriate and approved disposal facility.

- Bury the cuttings on-site, with at least 3 feet of cover materials, in a constructed pit within the cut portion of the well pad. While not optimal, this would effectively remove the cuttings materials from the surface, and from surface runoff, and minimize potential impacts to other surface resources. The disposal pit must be constructed within the cut (not fill) portion of the well pad to ensure the cuttings are not re-exposed at the surface during final well pad reclamation.

- Return to using reserve pits, as described and analyzed in the original approval for your current drilling operations.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

CONFIDENTIAL

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78212

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: - - -

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: NA

1. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER

8. WELL NAME and NUMBER: Quitchampau 1-15

2. NAME OF OPERATOR: Vantage Energy Uinta LLC

9. API NUMBER: 43-013-32940

3. ADDRESS OF OPERATOR: 116 Inverness Drive East, Suite 107 Englewood (CITY) CO (STATE) 80112 (ZIP)

PHONE NUMBER: 303-386-8600

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 709' FSL 675' FWL COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW /4 SW /4 Sec. 15 T 6S R 6W U.S.B.&M. STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARILY ABANDON
	[☑] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
[ ] SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLARE
	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/RESUME)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER:
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The wellsite was staked at 709' FSL 675' FWL (SW/4 SW/4) of Sec. 15 T6S R6W on May 24, 2005, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable. The wellsite lies within the approved federal Sowers Canyon Unit boundary designated by Serial No. UTU86334X and was effective as of August 5, 2008.

EOG Resources, Inc. (EOG) submitted the original Application for Permit to Drill (APD) on October 27, 2005, to the Bureau of Land Management (BLM) in Vernal and to the Utah Division of Oil, Gas, and Mining (UDOGM). The well was assigned API No. 43-013-32940. The state approval was granted on November 1, 2005. EOG requested that the well be drilled to a vertical depth of 14,400' to the Spring Canyon formation.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD originally submitted by EOG.

Vantage respectfully requests that all information regarding this well be kept confidential.

Vantage plans to drill this well from the surface location of 709' FSL 675' FWL (SW/4 SW/4) of Sec. 15 T6S R6W directionally to a bottomhole location of ±1,980' FSL ±660' FWL (NW/4 SW/4) of Sec. 15 T6S R6W. Vantage plans to drill this well to 6,500' to the Wasatch formation.

538841X 39.959780
4423182 -110.545257

COPY SENT TO OPERATOR
Date: 8-21-2008
Initials: KS

NAME (PLEASE PRINT) Mark Rothenberg TITLE Senior Engineer for: Vantage Energy Uinta LLC

SIGNATURE Mark Rothenberg DATE 8/11/08

(This space for State use only)

Approved by the Utah Division of Oil, Gas and Mining

RECEIVED
AUG 12 2008
DIV. OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

Date: 08-20-08
(See Instructions on Reverse Side)
By:

(5/2000)

Vantage Energy Uinta LLC
Quitchampau 1-15
SHL: 709' FSL 675' FWL (SW/4 SW/4)
BHL: 1,980' FSL 660' FWL (NW/4 SW/4)
Sec. 15 T6S R6W
Duchesne County, Utah
Federal Lease: UTU78212

DRILLING PROGRAM
(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)
REVISED July 10, 2008

This Application for Permit to Drill (APD) was initially filed under the Notice of Staking (NOS) process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. The process was changed to the "APD" process per OSO #1. This document was prepared using language and requirements consistent with those previously approved by BLM for nearby wells. This APD process included an onsite meeting with BLM representatives and EOG Resources, Inc. (EOG), at which time the specific concerns of EOG and BLM were discussed. Best efforts have been made to address specific concerns of the BLM representatives.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and Vantage will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD as originally submitted by EOG.

Please contact Mr. Mark Rothenberg, Senior Drilling Engineer with Vantage at 303-386-8600, if there are any questions or concerns regarding this Drilling Program.

Vantage respectfully requests that all information regarding this well be kept confidential.

a) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in **Table 1**

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description
Green River	Surface	Surface	8,784'	Sandstone/siltstone/shale
Green River Upper Marker	2,143'	2,171'	6,641'	Sand and Siltstone
Mahogany	2,686'	2,728'	6,098'	Oil Shale
Douglas Creek	4,400'	4,486'	4,384'	Sandstone/siltstone/shale
Black Shale	4,975'	5,075'	3,809'	Sandstone/siltstone/shale
Castle Peak	5,350'	5,460'	3,434'	Sandstone/siltstone/shale
Uteland Butte	5,770'	5,891'	3,014'	Carbonate/shale/sandstone
Wasatch	6,000'	6,127'	2,784'	Shale/sandstone
Total Depth	6,500'	6,640'	2,284'	TD ± 500' TVD into Wasatch

Surface Elevation: 8,772' (Ground) 8,786' (Est. KB). Proposed Total Depth: 6,640' / 6,500' (MD/TVD)

b) DEPTHS OF WATER AND MINERAL-BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicated indicated no permitted water wells within three miles of the proposed location. Utah Divison of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2.**

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Measured Depth	Subsea	Potential Contents
Green River	Surface	8,784'	Surface
Green River Upper Marker	2,171'	6,641'	Possible Water
Mahogany	2,728'	6,098'	Possible Water
Douglas Creek	4,486'	4,384'	Oil / Gas
Black Shale	5,075'	3,809'	Oil / Gas
Castle Peak	5,460'	3,434'	Oil / Gas
Uteland Butte	5,891'	3,014'	Oil / Gas
Wasatch	6,127'	2,784'	Oil / Gas

c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **1,430 psi**. Therefore, rules for a 2,000 psi rated BOP and choke manifold system are applicable. However, the typical rig inventory will consist of a 3,000 psi rated BOP and choke manifold. As such, the rig's BOP and choke manifold equipment will be tested to the standards for a 2,000 psi BOP system. A diagram of the proposed 2,000 psi rated BOP stack configuration is shown in **Fig. 1**.

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

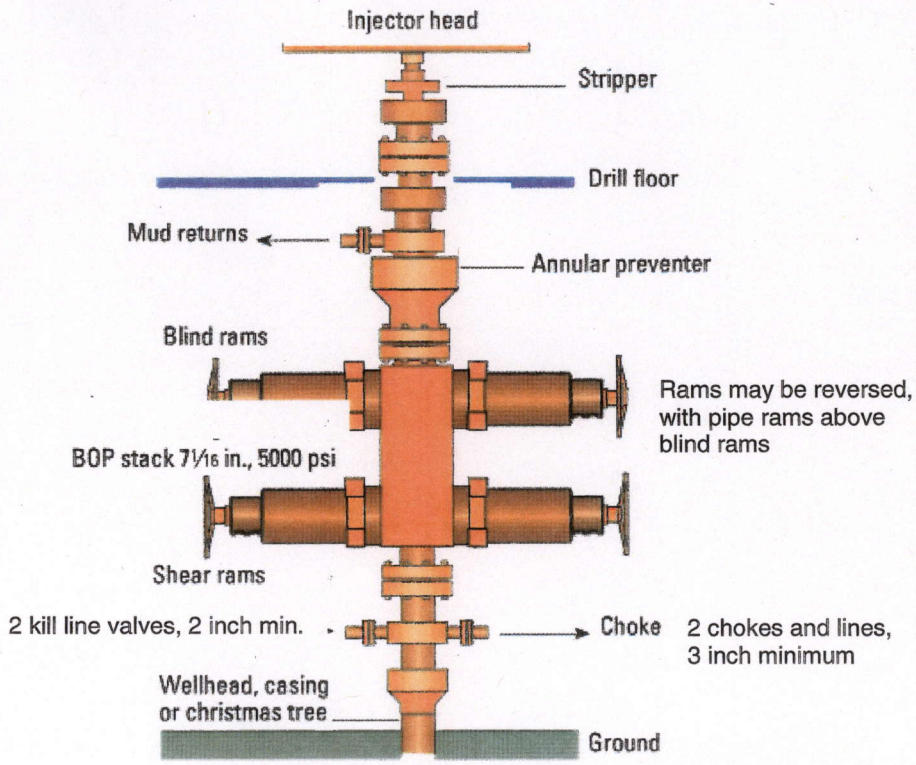
Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

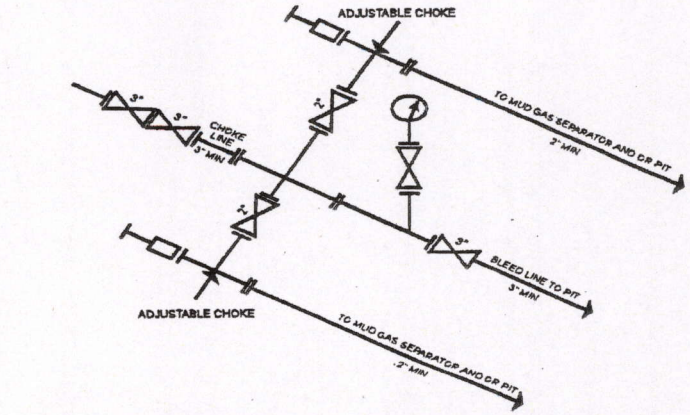
Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. **Please see variance request at end of program for this section.**

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Figure 1: Pressure Control Schematic
Operator and Well Name
Location
County and State

Generalized Setup for 2,000 psi Working Pressure System
Actual BOP Stack Used May Vary in Some Details





3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[54 FR 39528, Sept. 27, 1989]

Installed BOP Stack Will Meet All Requirements of BLM Onshore Oil and Gas Order 2

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2* for 2,000 psi systems. Regardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOP's and retain 200 psi above pre-charge. The proposed pressure control equipment will meet or exceed standards specified in the Order.

d) CASING PROGRAM

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade
0 – ± 50'	20"	14"	Optional Conductor – Only if Required
0 – 350'	12 1/4"	8 5/8"	24# J55 ST&C, API New Pipe
0 – 6,640'	7 7/8"	5 1/2"	15.5# K55 LT&C, API New Pipe

Table 4: Proposed Casing Specifications and Design Safety Factors

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*Safety Factors		
						Burst Design (1.2)	Collapse Design (1.0)	Tension Design (1.4)
14"	NA – 0.219" wall structural and to seal shallow gravels to allow air drilling surface hole				Weld	NA	NA	NA
8 5/8" 24# J55	1,370	2,950	381	244	ST&C	1.42	6.27	4.17
5 1/2" 15.5# J55	4,040	4,810	248	217	LT&C	1.25	1.41	1.55

***Safety Factor Calculation Assumptions:**

Surface Casing:

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP
Load = (Formation Gradient – 0.22 psi/ft) * Total Depth, TVD
= (0.44 psi/ft – 0.22 psi/ft) * 6,500 ft.
= 1,430 psi

TEST PRESSURE
Load = Greater of 1500 psig *or* 0.70*2950 = 2065 psig
SF Burst = 2,950 psi / 2,065 psi = 1.42

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.
Cement density = 12.0 ppg
Load = 12.0 ppg * 0.052 * 350 ft
= 218.4 psi
SF Collapse = 1370 psi / 218.4 psi = 6.27

Tension Load: Assumes air weight at total depth + 50,000 lbs overpull design factor.
Load = (24 lbs/ft * 350 ft) + 50,000 lbs overpull
= 58,400 lbs
SF Tension = 244,000 lbs / 58,400 lbs = 4.17

Test Pressure =

Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

Load = 4810 psi * 0.80
= 3848 psi
SF Burst = 4810 psi / 3848 psi = 1.25

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

Load = 0.44 psi/ft * 6500 ft
= 2860 psi
SF Collapse = 4040 psi / 2860 psi = 1.41

Tension Load: Assumes buoyed weight of casing at total depth + 50,000 lbs overpull design factor.

Load = [15.5 lbs/ft * 6640 ft* ((65.5 – 8.6) / 65.5)] + 50,000 lbs
= 89,407 lbs + 50,000 lbs
= 139,407 lbs
SF Tension = 217,000 lbs / 139,407 lbs = 1.55

e) CEMENT PROGRAM

Table 5: Proposed Cement Program

Depth	Hole Diameter	Casing Diameter	Cement
0' – ± 50'	20"	14"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess) **TOC: Surface (Top-off per visual observation)**
0' – 350'	12 1/4"	8 5/8"	**Single Slurry System (350' – Surface) + 40' Shoe Joint** 263 sks Class G + 2% $CaCl_2$ + ¼ lb/sk celloflake. Density: 15.8 ppg Yield: 1.15 cuft/sk Water: 5.0 gal/sk Excess = 100% **TOC: Surface (Top-off per visual observation)**
0' - 6,640'	7 7/8"	5 1/2"	**Lead System (4,000' – 2,000')** 120 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + ¼ lb/sk celloflake Density: 11.0 ppg Yield: 3.82 cuft/sk Water: 23.0 gal/sk *Excess: 30% **Tail System (6,640' – 4,000') + 40' Shoe Joint** 475 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + ¼ lb/sk celloflake Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk *Excess: 30%

*Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 10% excess factor.

f) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6.**

Table 6 Proposed Mud Program (See attached Halliburton mud program)

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type
0 – ± 50'	NA	NA	NA	NA
Set optional 14" conductor with bucket rig				
50' - 350'±	NA	NA	N/C	Air/Mist
Run/cement 8 5/8" surface casing				
350'± - TD	8.5 – 8.6	28 - 38	< 20	KCL Water / PHPA / DAP
Run Logs – Run/cement 5 1/2" production casing				

Surface Hole Comments: Spud with "spudder rig" and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Dump spud mud to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosphate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 4,000' "mud up" and "close in" the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

g) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7.**

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks
DIL-SP-LD-CN	Surface Casing to TD	Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper Will pull GR to surface
Dipole Sonic	± 4,000' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 4,000' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

h) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft.

Estimated BHP Douglas Creek (4,400')	1,936 psi
Estimated BHP Wasatch (6,000')	2,640 psi
Estimated BHP Total Depth (6,500')	2,860 psi
Hydrostatic head of gas/mud	0.22 psi/ft.
Maximum design surface pressure	0.44 – 0.22 psi/ft x 6,500 ft = **1,430 psi**

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated. The proposed well is a southern extension test of development drilling being conducted by Berry Petroleum in T5S-R3W. In addition, the proposed well is located on a previously drilled well site, the Tabby Canyon Unit No. 1, which was drilled to a total depth of 6,946' in January 1971, by Brinkerhoff Drilling Company. There were no abnormal hazards reported during the drilling of this well.

i) DIRECTIONAL PROGRAM (See attached directional plan by Multi-Shot LLC)

The Quitchampau 1-15 will be drilled as a directional well, with a bottom hole located in the center of NE¼ SW¼ Section 15, T6S-R6W. The vertical section distance will be a planned distance of 1,271'. The bottom hole will be landed within a 50' radius target tolerance. The directional plan with consist of a "build-and-hold" profile, with a planned KOP of 500', a build rate of 1.5°/100', and a final hold inclination of 12.9 degrees.

The purpose of the directional well is twofold: 1) To gain distance away from the old wellbore, Tabby Canyon Unit No. 1, which was drilled in January 1971, to insure communication to this old wellbore does not occur during the stimulation treatments planned during the completion phase, and 2) to better position the well on a "perfect" 40-acre drainage pattern for future development considerations.

j) OTHER INFORMATION

Contact Information and Personnel:

Mailing Address
Vantage Energy Uinta LLC
116 Inverness Drive, Suite 107
Englewood, CO 80112

Main Number: 303-386-8600
Fax Number: 303-386-8700

Primary Contact: Mark Rothenberg
Office Direct: 303-386-8605
Fax Direct: 303-386-8705
Mobile: 303-885-5462
E-Mail: Mark.Rothenberg@VantageEnergy.com

Drilling Operations: John Moran
Office Direct: 303-386-8610
Fax Direct: 303-386-8710
Mobile: 303-249-2234
E-Mail: John.Moran@VantageEnergy.com

Completion/Production Operations: Ed Long
Office Direct: 303-386-8639
Fax Direct: 303-386-8739
Mobile: 720-635-2125
E-Mail: Ed.Long@VantageEnergy.com

Geologist: Andrea Steinle
Office Direct: 303-386-8632
Fax Direct: 303-386-8732
Mobile: 303-408-0994
E-Mail: Andrea.Steinle@VantageEnergy.com

Landman: Michael Holland
Office Direct: 303-386-8638
Fax Direct: 303-386-8738
Mobile: 303-396-3443
E-Mail: Michael.Holland@VantageEnergy.com

START DATE AND DURATION OF ACTIVITIES

Anticipated start date
The drilling operations will commence as soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access upgrade work and location work would commence on or about August 5, 2008, with a target spud date of August 20, 2008. It is anticipated the drilling phase will require 7 days.

Completion
The well pad will be of sufficient size to accommodate all required completion equipment and activities. It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 days.

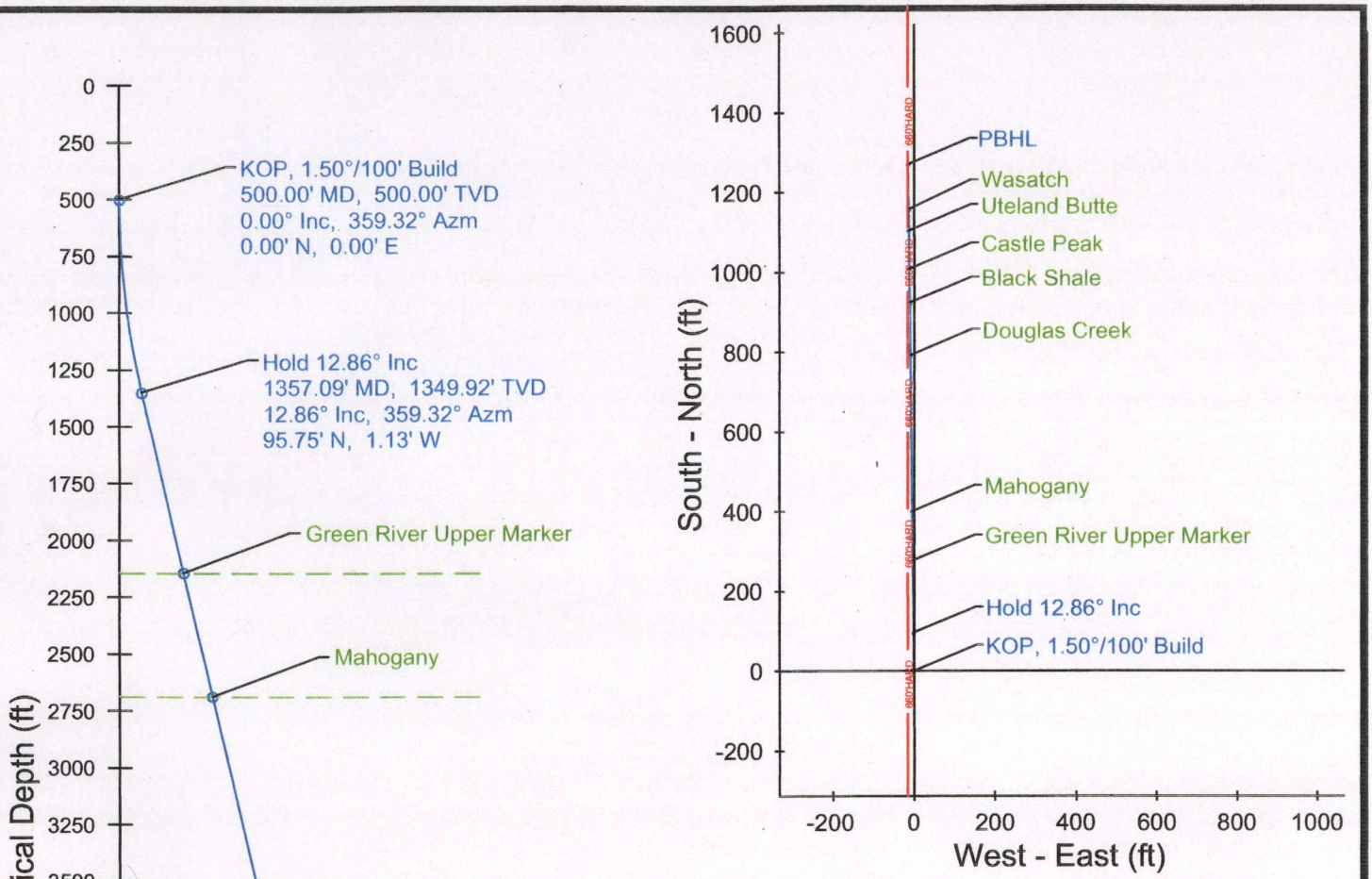
The total project duration is therefore estimated to be **52 days**, and therefore anticipated to be concluded on or about October 11, 2008.

A string of 2 7/8 inch 6.5 lb/ft. J-55 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

VARIANCE REQUESTS

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item B, No. 1h,* regulations requiring the surface casing be tested to the greater of 1500 psig, or 70% of the minimum internal yield.
    a. The MASP for this well is calculated to be 1,430 psig, while the 70% yield rating is 2,065 psig.
    b. Operator therefore requests approval to test the surface casing to the lesser value of 1,500 psig which is greater than the MASP value.
2. Operator requests a variance to *Onshore Oil and Gas Order 2, Item A,* regulations which outline test pressures for 3M pressure control systems.
    a. The drilling contractor's standard inventory will consist of 3M pressure control systems; however, as cited above, the MASP for this well is calculated to be 1,430 psig. As such, 2M pressure control equipment is sufficient for the drilling of this well.
    b. Operator therefore requests approval to test contractor's 3M BOPE to 2M pressure system standards. The double ram preventer will be tested to 2,000 psig, and the annular preventer will be tested to 1,500 psig. Safety valves and choke/kill valves and lines will all be tested to 2,000 psig.
3. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E,* regulations for air/gas drilling operations. Operator plans to drill only the surface hole to a depth of 350', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "...the following equipment shall be in place and operational during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located...a minimum of 100 feet (100') from the wellbore".

a. Operator requests approval to use a diverter bowl rather then a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 350'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35') from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blow cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit, and to therefore direct cuttings into the reserve pit in a safe and efficient manner.
c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooie line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.
d. Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to minimize the location size. The compressor will be located fifty feet (50') from the wellbore in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut-off valve on the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.



Vantage Energy

Company: Vantage Energy
Well: Quitchampau #1-15
Location: Duchesne County
State: Utah
Rig: Frontier 5
Correction:
North: Referenced to True North

Subject: Prop Rev 0
File Name: P08366r0.dwg
Date: 07/03/08
Drawn By: Allen Slack

Planning: (936) 442-2455
Fax: (936) 441-6620
Operations: (936) 441-6630
Fax: (936) 539-1075

MULTI-SHOT
WWW.MULTI-SHOTLLC.COM

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

MULTI-SHOT

Job Number: P08-366
Company: Vantage Energy
Lease/Well: Quitchampau #1-15
Location: Duchesne County
Rig Name: Frontier 5
RKB: 12'
G.L. or M.S.L.: 8772'

State/Country: Utah
Declination:
Grid: Referenced to True North
File name: F:\WELLPL~1\2008\P08360'S\P08366\08366.SVY
Date/Time: 03-Jul-08 / 17:08
Curve Name: Prop Rev 0

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 359.32
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
500.00	.00	359.32	500.00	.00	.00	.00	.00	.00	.00
600.00	1.50	359.32	599.99	1.31	-.02	1.31	1.31	359.32	1.50
700.00	3.00	359.32	699.91	5.23	-.06	5.23	5.23	359.32	1.50
800.00	4.50	359.32	799.69	11.77	-.14	11.77	11.77	359.32	1.50
900.00	6.00	359.32	899.27	20.92	-.25	20.92	20.92	359.32	1.50
1000.00	7.50	359.32	998.57	32.68	-.39	32.68	32.68	359.32	1.50
1100.00	9.00	359.32	1097.54	47.02	-.55	47.03	47.03	359.32	1.50
1200.00	10.50	359.32	1196.09	63.96	-.75	63.96	63.96	359.32	1.50
1300.00	12.00	359.32	1294.16	83.46	-.98	83.47	83.47	359.32	1.50
Hold 12.86° Inc									
1357.09	12.86	359.32	1349.92	95.75	-1.13	95.76	95.76	359.32	1.50
Green River Upper Marker									
2170.57	12.86	359.32	2143.00	276.74	-3.27	276.76	276.76	359.32	.00
Mahogany									
2727.53	12.86	359.32	2686.00	400.66	-4.73	400.69	400.69	359.32	.00
Douglas Creek									
4485.60	12.86	359.32	4400.00	791.82	-9.34	791.88	791.88	359.32	.00
Black Shale									
5075.39	12.86	359.32	4975.00	923.04	-10.89	923.11	923.11	359.32	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
Castle Peak									
5460.03	12.86	359.32	5350.00	1008.62	-11.90	1008.69	1008.69	359.32	.00
Uteland Butte									
5890.83	12.86	359.32	5770.00	1104.47	-13.03	1104.55	1104.55	359.32	.00
Wasatch									
6126.75	12.86	359.32	6000.00	1156.96	-13.65	1157.04	1157.04	359.32	.00
PBHL									
6639.60	12.86	359.32	6500.00	1271.07	-15.00	1271.16	1271.16	359.32	.00

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/31/2005

API NO. ASSIGNED: 43-013-32940

WELL NAME: QUITCHAMPAU 1-15

OPERATOR: VANTAGE ENERGY UINTA (N3295)

PHONE NUMBER: 307-276-4842

CONTACT: KAYLENE GARDNER

PROPOSED LOCATION:

SWSW 15 060S 060W

SURFACE: 0709 FSL 0675 FWL

BOTTOM: 1980 FSL 0660 FWL

COUNTY: DUCHESNE

LATITUDE: 39.95462 LONGITUDE: -110.5523

UTM SURF EASTINGS: 538246 NORTHINGS: 4422607

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-78212

PROPOSED FORMATION: WSTC

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

_____ Plat

_____ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UTB000288)

_____ Potash (Y/N)

_____ Oil Shale 190-5 (B) or 190-3 or 190-13

_____ Water Permit
(No. 49-1501)

_____ RDCC Review (Y/N)
(Date: _____)

_____ Fee Surf Agreement (Y/N)

_____ Intent to Commingle (Y/N)

LOCATION AND SITING:

____ R649-2-3.

Unit: _____

____ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

____ R649-3-3. Exception

____ Drilling Unit

Board Cause No: _____

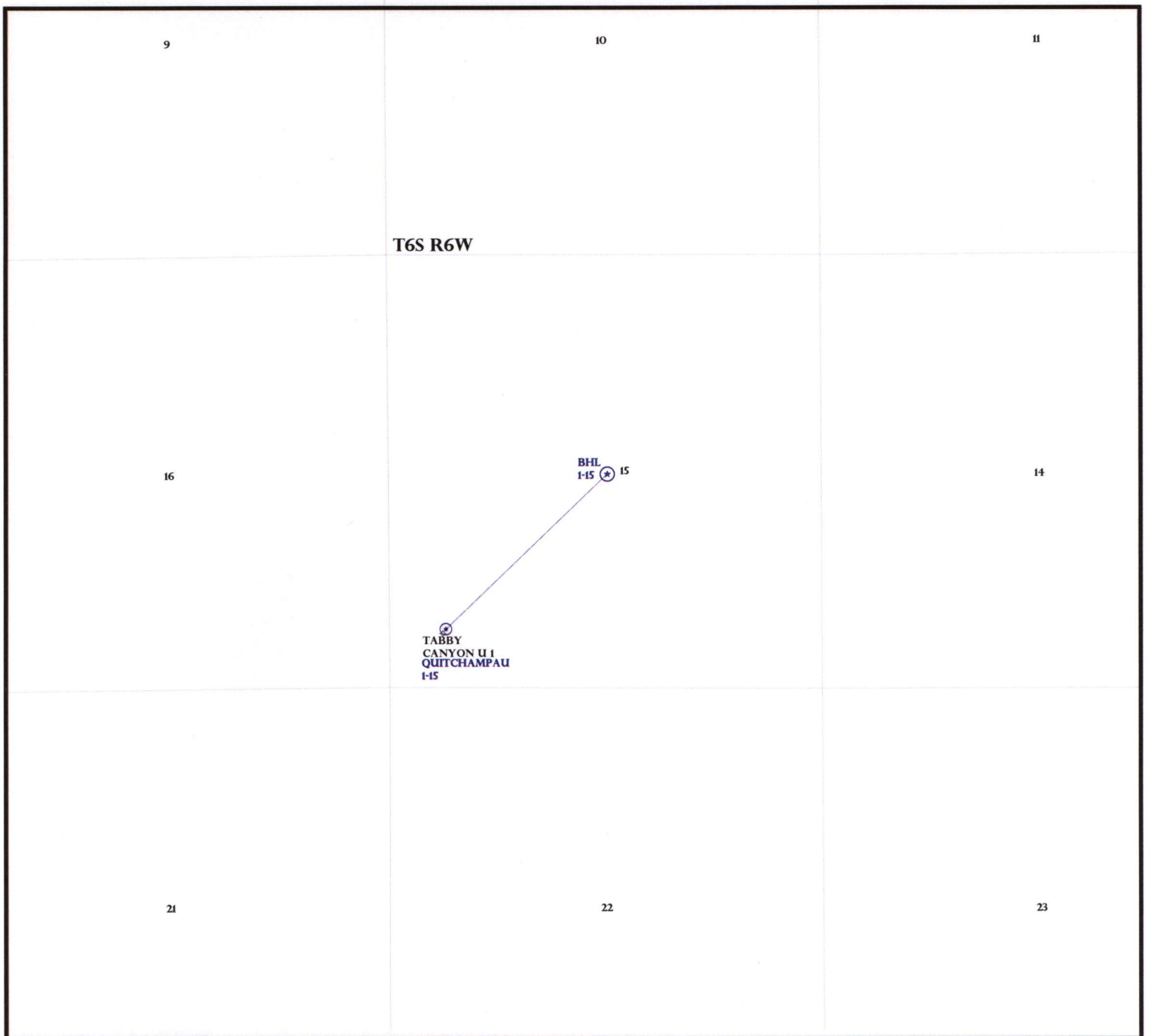
Eff Date: _____

Siting: _____

____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____



OPERATOR: VANTAGE ENERGY (N3295)

SEC: 15 T.6S R. 6W

FIELD: WILDCAT (001)

COUNTY: DUCHESNE

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 13-AUGUST-2008

VANTAGE ENERGY

August 13, 2008

Ms. Diana Mason
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Ste. 1210
Salt Lake City, Utah 84114

Re: Directional Drilling R649-3-11
Vantage Energy Uinta LLC, Quitchampau 1-15
709' FSL, 675' FWL, SW SW Section 15, T6S, R6W, USBM (surface)
1,980' FSL, 660' FWL, NW SW Section 15, T6S, R6W, USBM (bottomhole)
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on July 10, 2008, we are hereby submitting this letter in accordance with Oil and Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Vantage's Quitchampau 1-15 is an exploratory well located within the Ashley National Forest.
- Vantage is permitting this well as a directional hole in order to minimize surface disturbance. The well pad will partially overlie a previously drilled exploratory test, the Brinkerhoff Tabby Canyon Unit 1. Vantage will reuse a significant portion of the original well site disturbed areas for part of the well pad and access road.
- Vantage wishes to avoid potential conflict with the previously drilled wellbore, particularly during stimulation operations, by placing the bottomhole location some distance away from the surface location.
- The proposed bottomhole location would allow for future evenly-spaced 40 acre development as the bottomhole coordinates are in the center of the NE NW quarter quarter of the section.

Vantage hereby certifies that it is either contractually or otherwise controls 100% working interest within 460 feet of the entire directional well bore and within Section 20 (federal oil and gas lease UTU78212).

RECEIVED
AUG 14 2008
DIV. OF OIL, GAS & MINING

116 INVERNESS DRIVE EAST · SUITE 107 · ENGLEWOOD · COLORADO · 80112
PHONE: (303) 386-8600 · FAX: (303) 386-8700

VANTAGE ENERGY

Should there be any additional information you may require for the evaluation and approval of this request, please contact me at 303-386-8610.

Sincerely,

VANTAGE ENERGY UINTA LLC
John J Moran Jr
Senior Engineer

Attachments: Directional Well Plan
Gilsonite 1-20

116 INVERNESS DRIVE EAST · SUITE 107 · ENGLEWOOD · COLORADO · 80112
PHONE: (303) 386-8600 · FAX: (303) 386-8700

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *– Other instructions on page 2.*

5. Lease Serial No.
UTU-78212

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
Sowers Canyon Unit UTU86334X

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Quitchampau 1-15

2. Name of Operator
Vantage Energy Uinta LLC

9. API Well No.
43-013-32940

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. *(include area code)*
(303) 386-8600

10. Field and Pool or Exploratory Area
Wildcat

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
709' FSL & 675' FWL (SWSW)
Sec 15-T6S-R6W

11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☑ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Produced wastewater for the above well will be disposed with RN Industries at their Bluebell disposal facility located in Section 9, T2S, R2W, Duchesne County, Utah.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Mark Rothenberg

Title Senior Engineer

Signature

Date 8/12/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
AUG 18 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-78212

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: Sowers Canyon Unit UTU86334X

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Extend APD

8. WELL NAME and NUMBER: Quitchampau 1-15

2. NAME OF OPERATOR: Vantage Energy Uinta LLC

9. API NUMBER: 4301332940

3. ADDRESS OF OPERATOR: 116 Inverness Dr. East #107 CITY Englewood STATE CO ZIP 80112

PHONE NUMBER: (303) 386-8600

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 709' FSL & 675' FWL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 15 T6S R6W 6

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD Extension Request
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Vantage Energy Uinta LLC (Vantage) requests to extend the APD for the above well. Enclosed is the Application for Permit to Drill Request for Permit Extension Validation form.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 10/30/08

By: D Jarvis

COPY SENT TO OPERATOR

Date: 10.30.2008

Initials: KS

NAME (PLEASE PRINT) Mark Rothenberg TITLE Senior Engineer

SIGNATURE [signature] DATE 10/21/08

(This space for State use only)

RECEIVED
OCT 27 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4301332940
Well Name: Quitchampau 1-15
Location: 709' FSL & 675' FWL (SWSW) Sec. 15 T6S R6W
Company Permit Issued to: Vantage Energy Uinta LLC
Date Original Permit Issued: 11/1/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☑No☐

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Signature

10/21/08
Date

Title: Engineer

Representing: Vantage Energy Uinta LLC

RECEIVED
OCT 27 2008
DIV. OF OIL, GAS & MINING

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

January 7, 2010

Vantage Energy Uinta LLC
116 Inverness Dr. East # 107
Englewood, CO 80112

Re: APD Rescinded – Quitchampau 1-15, Sec.15 T.6S, R.6W
Duchesne County, Utah API No. 43-013-32940

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on November 1, 2005. On November 2, 2006, October 10, 2007 and October 30, 2008 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 7, 2010.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Green River District-Vernal Field Office
170 South 500 East
Vernal, UT 84078
(435) 781-4400 Fax: (435) 781-4410
http://www.blm.gov/ut/st/en/fo/vernal.html

TAKE PRIDE IN AMERICA

MAR 0 6 2012

IN REPLY REFER TO:
3160 (UTG011)

Mike Holland
Vantage Energy Uinta LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112

Re: Notice of Expiration
Well No. Quitchampau 1-15
SWSW, Sec. 15, T6S, R6W
Duchesne County, Utah
Lease No. UTU-78212
Sowers Canyon Unit

43 013 32940

RECEIVED
MAR 1 2 2012
DIV. OF OIL, GAS & MINING

Dear Mr. Holland:

The Application for Permit to Drill (APD) for the above-referenced well was approved on August 6, 2008. No extension of the original APD was requested. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Cindy Severson at (435) 781-4455.

Sincerely,

Jerry Kenczka
Assistant Field Manager
Lands & Mineral Resources

cc: UDOGM
Dave Banko